CARDIAC RHYTHM MANAGEMENT

# Product Performance Report 2024 First Edition



## Letter from Abbott

As a world leader in the development of state-of-the-art technology for cardiac rhythm management devices, Abbott continuously strives to partner with physicians in reducing risks and facilitating the best possible patient outcomes. We understand that our products are implanted in people whose health and well-being depend on their performance. From product design through patient follow-up, Abbott employees are dedicated to product quality and patient safety.

In keeping with this commitment, we publish the Product Performance Report (PPR) semi-annually to ensure that the healthcare community and the patients it serves are informed about the performance of our cardiac devices, which include, implantable cardioverter defibrillators (ICDs), implantable pacemakers, and implantable pacing and defibrillation leads. Abbott recognizes that such performance data must be transparent and consistent.

To meet these goals we continue our commitment to the reporting methods described in the 2009 AdvaMed document "Industry Guidance for Uniform Reporting of Clinical Performance of Cardiac Rhythm Management Pulse Generators and Leads", which set standards for lead and pulse generator performance reporting. Determined to provide the highest level of transparency, Abbott goes beyond the AdvaMed recommendations by identifying the root cause of each ICM, ICD, and pacemaker malfunction and providing subcategories of lead malfunctions.

At Abbott, we adapt quickly to changes in the world around us, harnessing leading-edge science and technology to deliver the best possible solutions for some of the world's most important health challenges. We are proud to include a new section in this PPR beginning on page 169 containing the performance of our AVEIR<sup>™</sup> VR Leadless Pacemaker.

As we continually strive to provide unbiased and reliable information on the performance of our products, Abbott is pleased to release the first edition of the 2024 Product Performance Report containing the latest performance information on our ICDs, pacemakers and lead systems.

Sincerely,

B. Blunit

**Robert Blunt** Divisional Vice President, Quality

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## Serving Our Mission

Abbott is advancing the treatment of heart and vascular disease through breakthrough medical technologies, allowing people to restore their health and get on with their lives. We focus on improving treatment options for coronary artery disease, cardiac rhythm management, atrial fibrillation, heart failure, structural heart and peripheral artery disease. We are here for the people we serve in their pursuit of healthy lives. This has been the way of Abbott for more than a century—passionately and thoughtfully translating science into lasting contributions to health.

Toward this mission, we maintain a rigorous approach to ensuring the quality of our products. The key elements of this effort include:

- Compliance with U.S. and International quality system standards, such as the U.S. FDA Quality Systems Regulation (21 CFR Part 820) and ISO 13485 (an international standard for the Quality Management System for medical devices)
- Thorough evaluation of product design, including extensive design verification and validation, as well as product qualification testing
- Rigorous control of the design and manufacturing processes
- Inspection and qualification of externally supplied components and materials
- Timely analysis of returned products, including extensive malfunction investigation
- Extensive and frequent internal auditing
- Post market surveillance
- Continuous improvement programs
- Ensuring the highest ethical standards

We continue to be committed to answering your questions and keeping you informed. If you have any questions or concerns, please contact your Abbott Representative or Abbott Technical Services at 1-800-722-3774. Thank you for your input and continued support, allowing Abbott to positively impact the lives of thousands of patients every year.

## What's New in This Report

#### **AVEIR™ VR PERFORMANCE**

Commercial implants of the Aveir<sup>\*\*</sup> VR leadless pacemaker commenced in April 2022, and with the publication of the 2024 First Edition Product Performance Report, Abbott has now completed monitoring and assessment for over one year. The ISO 5841-2:2014(E) criteria for reporting Pulse Generator performance have been applied to the Aveir<sup>\*\*</sup> VR pacemaker, including assessment of returned product analysis and calculation of the survival probability. In addition, the category of 'Extrinsic Factors' has been added to the standard list of pulse generator malfunctions. This category currently exists for cardiac leads and has been adapted by Abbott for the Aveir<sup>\*\*</sup> VR leadless pacemaker to acknowledge its unique functionality and design characteristics.

Commercial implants of the Aveir DR leadless pacemaker system commenced in November 2023. At the time of data processing for the 2024 First Edition Product Performance Report, an insufficient quantity (<500 devices) had been implanted to qualify for inclusion. Abbott anticipates that the Aveir DR system will be included in the 2024 Second Edition.

### UPDATE ON THE MERLIN PATIENT CARE SYSTEM AND MERLIN.NET SOFTWARE FOR LONGEVITY ESTIMATION

In June 2022, Abbott notified customers of an update to the programmer and remote care software to improve the accuracy of the predicted battery longevity in certain pacemaker families. Previous software versions had the potential to display overestimated predicted longevity, even though the pacemaker functionality, therapy delivery, and overall longevity remained normal and within specifications. Further details including patient management recommendations and updated worldwide incidence rates can be found on page 215 and also on the Product Advisories web page at <a href="https://www.cardiovascular.abbott/us/en/hcp/product-advisories.html">https://www.cardiovascular.abbott/us/en/hcp/product-advisories.html</a>

### UPDATE ON FORTIFY", FORTIFY ASSURA", QUADRA ASSURA", QUADRA ASSURA MP", UNIFY", UNIFY ASSURA" AND UNIFY QUADRA ICD PREMATURE BATTERY DEPLETION ADVISORY

In order to provide the most up-to-date information, Abbott continues to include an update on the Fortify<sup>™</sup>, Fortify Assura<sup>™</sup>, Quadra Assura<sup>™</sup>, Quadra Assura<sup>™</sup>, Quadra Assura<sup>™</sup>, Quadra Assura<sup>™</sup>, Unify<sup>™</sup>, Unify<sup>™</sup>, Unify Assura<sup>™</sup> and Unify Quadra<sup>™</sup> ICD premature battery depletion advisory (October 2016) in the Focus on Clinical Performance section (see pages 198-200). This section includes an overview on the analysis of products returned to Abbott. Additionally, for advisory models with at least 500 active devices in service, Abbott provides a separate product performance data page per model number.

## Performance Data

Product performance data is derived from customer-initiated complaints and returned products. Abbott strongly encourages the submission of any relevant complaints and product returns. Underreporting of events is recognized throughout our industry. Abbott is constantly improving the accuracy and utility of the data within this Product Performance Report.

#### SUMMARY INFORMATION

The Performance Data page for each product model or model group includes a table of model-specific information. Several terms from this table that are relevant to performance data calculations are defined below:

**Registered U.S. Implants** - The total number of U.S. implanted devices for which patient and device information has been provided to Abbott. This total includes devices which have been explanted or are otherwise out of service.

**Estimated Active U.S. Implants** - The total number of U.S. registered implants that have not been identified to Abbott as explanted or otherwise out of service. An adjustment is made to account for the underreporting of patient mortality. Abbott performed an analysis of the data gathered from multiple clinical studies including some Abbott sponsored studies to determine the mortality rate within the pacemaker and ICD patient population and has factored this into the estimation of the number of active U.S. implants.

**Estimated Longevity** - The estimated number of years in which a device is expected to reach its Elective Replacement Indicator (ERI), as stated in the product literature. The estimate is based on battery life approximations and empirical battery performance distributions. It is strongly affected by many factors such as programmed parameters, percentage of time paced, internal impedance, etc. For example, the 9.2 year estimated longevity of an Accent<sup>®</sup> DR model PM2110 pacemaker is based on the mean longevity (or 50%) value in the product literature corresponding to pacing at 60 ppm, 2.5V dual-chamber output at 0.4 ms pulse width, 500 ohm lead impedance, 100% DDD pacing, and Stored EGMs On. Actual performance can vary considerably, depending on the actual programmed settings and operations.

**Normal Battery Depletion** - The condition where a returned device met its electrical specification and reached its elective replacement indicator voltage (1) with an implant duration meeting or exceeding the nominal predicted longevity at default shipped settings, or (2) with an implant duration exceeding 75% of its estimated longevity, based on longevity calculations using information from device usage and the actual device settings. The quantity of normal battery depletions reported is determined directly from laboratory analysis and does not represent any adjustment to account for underreporting.

#### SURVIVAL CALCULATION GENERAL METHODS

For ICDs, pacemakers, ICMs, and leads, we compile cumulative survival data based on the actuarial (or life-table) method of survival analysis, consistent with ISO 5841-2:2014(E) "Reporting of Clinical Performance of Populations of Pulse Generators and Leads" and the 2009 AdvaMed document "Industry Guidance for Uniform Reporting of Clinical Performance of Cardiac Rhythm Management Pulse Generators and Leads". Product performance is plotted over a maximum range of 20 years, with a minimum of 500 registered implants required for inclusion in the report, and a minimum sample size for each reported time period of 200 devices. "Survival" refers to the proper function of the device, not the survival of the patient, and is intended to illustrate the calculated probability of device survival at a given point in time. A survival probability of 99% at five years, for example, indicates that at five years after implant, the system has a 1% risk of incurring a malfunction and/or normal battery depletion. All domestically implanted devices within each model family are included in the calculations.

With the large size of the U.S. data pool, and the same products are generally used both in the U.S. and internationally, we consider the data in this report to accurately represent each device's performance, regardless of where in the world it was implanted.

The ISO 5841-2:2014(E) "Reporting of Clinical Performance of Populations of Pulse Generators and Leads" was revised in August 2014. The revision clarified survivor definitions and reporting methods, further standardizing product performance reporting across the cardiac rhythm management implantable device and lead manufacturers.

This revision of the ISO standard specifically excludes lead malfunctions confirmed through returned product analysis which were received with no accompanying complaint from the survival probability calculations. However, to provide the highest level of transparency, Abbott continues to include malfunctions not associated with a complaint in the survival probability calculations and in the tabular display of laboratory-confirmed malfunctions.

#### ICD AND PACEMAKER SURVIVAL ANALYSIS

The data used for the analysis of ICDs and pacemakers includes up-to-date device registration information and the laboratory analysis of all domestically implanted devices returned to Abbott. The analysis measures device performance to specification, and does not reflect medical complications, such as infection, erosion, muscle stimulation or inhibition, or units implanted for fewer than 24 hours.

In accordance with ISO 5841-2:2014(E), the survival calculations for ICDs and pacemakers are adjusted to reduce the bias caused by underreporting of malfunctions and normal battery depletions. Abbott compared the malfunctions and normal battery depletion rates calculated from our actively monitored populations to the rates calculated from our passively monitored populations and have adjusted the survival calculations accordingly.

Survival data are presented in a single table and graph. The survival data is separated into "Including Normal Battery Depletion" and "Excluding Normal Battery Depletion" data reflects the frequency of device removal due to normal battery depletion and malfunction of any type. The "Excluding Normal Battery Depletion" category reflects the frequency of device removal due to malfunctions only.

#### ICD, PACEMAKER, AND ICM MALFUNCTION REPORTING

The quantity and rate of malfunctions recorded for each ICD, pacemaker, and ICM model are presented in a tabular format. The root cause of all laboratory-confirmed malfunctions is classified into one of eight categories: Electrical Component, Electrical Interconnect, Battery, High Voltage Capacitor (ICDs and CRT-Ds only), Software/ Firmware, Mechanical, Possible Early Battery Depletion, or Other. Note that in the rare cases where multiple malfunctions are identified in a single device, a single malfunction category will be selected with priority given in the order of the list above. Consistent with previous performance reports, ICD and Pacemaker malfunctions are further classified as with or without compromised therapy.

ISO 5841-2 (E) was revised in August 2014. This version of the standard (ISO 5841-2:2014 (E)) modified the definitions of device malfunctions with compromised therapy and device malfunctions without compromised therapy from the previous version of the standard (ISO 5841-2:2000 (E)). In Product Performance Reports (PPRs) published prior to July 2021, Abbott used the definitions of these terms included in ISO 5841-2:2000 (E). Beginning with the July 2021 PPR, Abbott is using the revised definitions in ISO 5841-2:2014 (E) to classify device malfunctions. Abbott maintains its commitment to provide the highest level of transparency in reporting.

#### **Malfunction Definitions**

Malfunction - failure of a device to meet its performance specifications or otherwise perform as intended.

**Malfunction with Compromised Therapy** - device malfunction causing compromised pacing or defibrillation therapy (including complete loss or partial degradation) while implanted and in service.

Malfunction without Compromised Therapy - Pulse generator malfunction that did not compromise pacing or defibrillation therapy while implanted and in service.

Note: Therapy is not compromised as long as the critical patient-protective pacing and defibrillation therapies are available. This includes changes in device settings that occur as intended by the design and do not result in loss of critical patient protective therapies but are the reported reasons for explant. Examples include (but are not limited to): reversion to a designed "safe mode", "power-on reset" or other manufacturer specific terminology, error-affecting diagnostic functions, telemetry function, data storage, malfunction of a component that causes battery to lose power quickly enough to cause premature battery depletion, but slowly enough that the condition is detected through normal follow-up before therapy is lost; mechanical problems with connector header that do not affect therapy.

#### **Malfunction Root Cause Category Definitions**

**Electrical Component** - Findings linked to electrical components such as integrated circuits, resistors, low voltage capacitors, diodes, etc. Does not include high voltage capacitors or batteries as those are separately listed.

Electrical Interconnect - Findings linked to the connections between electrical components such as wires, solder joints, wire bonds, feedthroughs, etc.

Battery - Findings linked to the battery and its components.

High Voltage Capacitor - Findings linked to the high voltage capacitor and its components.

Software/Firmware - Findings linked to software or firmware function.

Mechanical - Findings linked to mechanical components such as headers, setscrews, fluid seals, internal supports, the hermetic case, etc.

**Possible Early Battery Depletion** - Findings where the actual reported implant time is less than 75% of the expected longevity calculated using the available device setting information and no root cause was able to be identified. Additionally, in the absence of a specific root cause finding, returned devices with insufficient device setting information to determine conclusively if battery depletion was normal or premature are conservatively classified as Possible Early Battery Depletion malfunctions.

**Other** - Findings linked to other components such as packaging and accessories, and findings where analysis is inconclusive, as well as other complications not included above.

**Extrinsic Factors** - The device was implanted greater than 30 days, removed from service with an associated complaint and returned for analysis, however analysis was inconclusive because (1) the returned device was damaged by the explantation process, or (2) lab analysis could not determine an out of specification condition (typically with complaints such as dislodgements, perforations, or failure to capture).

#### LEADS SURVIVAL ANALYSIS

Implanted cardiac leads are subjected to constant, complex flexural and torsional forces, interactions with other leads and/or the pulse generator device, plus other forces associated with cardiac contractions, patient physical activity, posture, and anatomy. Therefore, the functional lifetime of cardiac leads is limited and cannot be predicted with a high degree of confidence. Understanding these limitations, survival estimates are provided for all leads included in this report.

The data used for the survival analysis of leads includes up-to-date lead registration information, chronic complications (>30 days) reported by the field, and the laboratory analysis of all domestically implanted leads returned to Abbott. Complaints reported within 30 days of implant (acute observations), are considered to be related to factors other than lead malfunction, such as patient specific characteristics or implant technique, and are therefore excluded from the survival calculations, consistent with industry practice. If there is laboratory data that determines the lead to have exhibited a malfunction, and the lead is known to have been implanted for more than 24 hours, the lead is counted as a non-survivor. If a lead is the subject of a complaint report and was implanted for more than 30 days (chronic complication), then the lead is counted as a non-survivor. These criteria are also followed for partial lead returns. This method for non-returned complications is used to ensure a conservative failure estimate for lead performance. Chronic complications commonly associated with non-returned leads and partial lead returns include, but are not limited to, reports of sensing, pacing, and capture anomalies, perforation, and dislodgement.

#### LEADS OBSERVATION AND COMPLICATION REPORTING

Reporting for recently released lead models provides detail on specific chronic complications (more than 30 days implant), as well as acute observations (post implant to 30 days), that are reported to Abbott as complaints. Each complication and observation is categorized into one of the eleven categories below, irrespective of whether the lead has been returned for analysis. The quantity and rate of each complication and observation type is provided in a tabular format on the Performance Data page. Note that in the rare cases where multiple complaints are identified for a single lead, a single category will be selected with priority given in the order of the list below.

**Cardiac Perforation** - Penetration of the lead tip through the myocardium, clinically suspected and confirmed by chest x-ray, fluoroscopy, echocardiogram, or visual observation, which results in clinical symptoms, typically degradation of pacing/ICD lead electrical performance (high thresholds), chest pain, or tamponade.

**Conductor Fracture** - A mechanical break within a lead conductor (includes connectors, coils, cables and/or electrodes) observed visually, electrically, or radiographically.

Lead Dislodgement - Radiographic, electrical or electrocardiographic evidence of electrode displacement from the original implant site or electrode displacement that adversely affects pacing and/or lead performance.

**Failure to Capture** - Intermittent or complete failure to achieve cardiac stimulation (atrial or ventricular) at programmed output delivered outside of the cardiac refractory period. A sudden and significant increase in the pacing threshold value (elevated thresholds compared to previous measured value) at which 2:1 safety margin can no longer be achieved.

**Oversensing** - Misinterpretation of cardiac or non-cardiac events as cardiac depolarization, e.g. T-waves, skeletal muscle potentials, and extracardiac electromagnetic interference (EMI).

**Failure to Sense (undersensing)** - Intermittent or complete loss of sensing or failure to detect intended intrinsic cardiac signals (atrial or ventricular) during non-refractory periods at programmed sensitivity settings.

Insulation Breach - A disruption or break in lead insulation observed visually, electrically, or radiographically.

**Abnormal Pacing Impedance** - Pacing impedance is typically considered abnormal if a measurement is < 200  $\Omega$  or > 2000  $\Omega$  (based on lead model and measurement range of the device).

**Abnormal Defibrillation Impedance** - Defibrillation impedance is typically considered abnormal if a measurement is  $< 20 \Omega$  or  $> 200 \Omega$  (based on lead model and measurement range of the device).

Extracardiac Stimulation - Clinical observation of inadvertent nerve/muscle stimulation other than cardiac muscle.

**Other** - Specific proprietary lead mechanical attributes such as lead incorporated sensors, connectors or seal rings which affect a lead's ability to perform as designed or remain in service, as well as other complications not included above.

#### LEADS MALFUNCTION REPORTING

As a supplement to the survival estimates, the categorization of lead malfunctions emphasizes the root cause of malfunction rather than a functional longevity prediction. In accordance with AdvaMed guidelines, laboratory analysis results of returned leads are categorized into one of the following five categories of malfunctions. The quantity and rate of each malfunction type is provided in a tabular format on the Performance Data pages.

Note that in the rare cases where multiple malfunctions are identified in a single lead, a single malfunction category will be selected with priority given in the order of the list below. The definition for each malfunction type is provided below:

**Conductor Fracture** - Conductor break with complete or intermittent loss of continuity that could interrupt current flow. This type of malfunction includes any conductor fracture such as those associated with flex-fatigue or clavicular crush damage.

In an effort to further increase customer understanding of Abbott defibrillation and left-heart lead performance, subcategories of conductor fracture are also provided. The definitions of these subcategories are provided below:

Clavicular Crush - Conductor fracture due to strong compression and bending at the approximation of the first rib and clavicle.

In the Pocket - Conductor fracture not within the vascular or cardiac systems, typically within the subcutaneous pocket or associated with the suture sleeve, excluding the mechanism of clavicular crush.

Intravascular - Conductor fracture within the vascular or cardiac systems.

**Insulation Breach** - Any lead insulation breach, such as: 1) proximal abrasion associated with lead-to-lead or lead-to-can contact in the pocket, 2) mid-lead insulation damage caused by clavicular crush or insulation wear in the region of vein insertion, 3) distal abrasion due to lead-to-lead interactions or contact with anatomic structures, and 4) externalized conductors in the distal region.

Subcategories of insulation breach for defibrillation and left-heart leads are also provided. The definitions of these subcategories are provided below:

Lead-to-Can Contact - Direct contact between the lead and the can (i.e. pacemaker, ICD, or CRT-D) combined with repetitive skeletal movement caused abrasion that resulted in a full thickness outer insulation breach.

Lead-to-Lead Contact - Repetitive contact between two leads caused abrasion that resulted in a full thickness outer insulation breach.

Clavicular Crush - Damage due to strong compression between the first rib and clavicle resulted in a full thickness outer insulation breach.

**Externalized Conductors** - Abrasion resulted in an outer insulation breach within the vascular or cardiac systems allowing the normally contained conductors to become visible outside the lead body. Externalized conductors were described in our December 2010 and November 2011 communications regarding insulation abrasion failures on silicone Riata<sup>®</sup> and Riata<sup>®</sup> ST lead families (summary on pages 224-225) and in our April 2012 communication regarding insulation abrasion failures on QuickSite<sup>®</sup> and QuickFlex<sup>®</sup> lead families. Additional information regarding externalized conductors on Riata<sup>®</sup> and Riata<sup>®</sup> ST leads can be found at https://www.cardiovascular.abbott/us/en/hcp/product-advisories/riata.html.

**Other (Insulation Breach)** - Insulation breaches that resulted from a failure mode not represented by the other four categories. This includes a variety of failure modes, such as damage at the suture sleeve and contact with patient anatomy. Also includes insulation breaches for which analysis was unable to isolate a specific cause.

Crimps, Welds and Bonds - Any interruption in the conductor or lead body associated with a point of connection.

**Other** - Includes specific proprietary lead mechanical attributes, such as lead incorporated sensors, connectors, and seal rings, as well as other analysis results not included in the alternate categories.

**Extrinsic Factors** - The lead was implanted greater than 30 days, removed from service with an associated complaint and returned for analysis, however analysis was inconclusive because (1) only portions of the lead were available, or (2) the returned lead was damaged by the explanation process, or (3) lab analysis could not determine an out of specification condition (typically with complaints such as dislodgements, perforations, or failure to capture).

## Medical Advisory Board Review

Abbott has an established and independent Medical Advisory Board (MAB) focused on cardiac rhythm management systems, including pulse generators and leads. One of the important tasks assigned to the MAB is the review of the performance data contained in this report prior to its release and publication on a semi-annual basis. MAB members and their location of practice include:

| Dr. Rajesh Banker, Newport Beach, California | Dr. Roger Freedman, Salt Lake City, Utah     |
|--|--|
| Dr. Larry Chinitz, New York, New York        | Dr Reinoud Knops, Amsterdam, Netherlands     |
| Dr. Anne Curtis, Buffalo, New York           | Dr. Devi Nair, Jonesboro, Arkansas           |
| Dr. Derek Exner, Calgary Alberta, Canada     | Dr. Raymond Schaerf, Los Angeles, California |

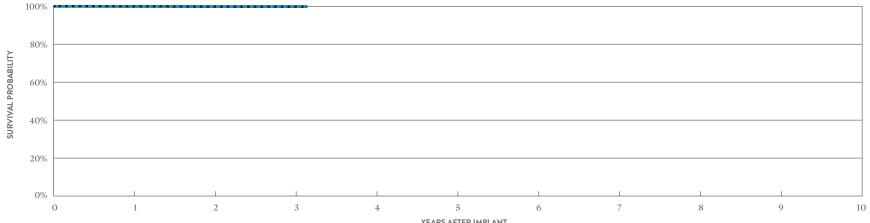
## **Returning Devices to Abbott**

To maintain the continued accuracy of our performance reporting, Abbott strongly encourages physicians to notify our Patient Records department (800-550-1648) each time a device is removed from service for any reason. Additionally, all explanted products are requested to be returned to Abbott for laboratory evaluation whether or not a malfunction is suspected. To facilitate the return of explanted devices, Abbott offers a no-cost Returned Products Kit comprised of a postage paid explant box with a shipping address label, a removed device information form, a biohazard bag, and biohazard labels to seal the explant box. This kit, #N0004, can be ordered free of charge by contacting Abbott Customer Service (800-681-9293).

## Contact Us

The Abbott team is always ready to respond to questions, comments or suggestions as well as receive product performance feedback. You can reach us by phone at 651-756-2000, on the web at www.abbott.com, or by contacting your local Abbott representative.

| Gallant" HF CRT-D<br>MODEL CDHFA500Q* |                        |                                  | W/ COM | NCTIONS<br>PROMISED<br>RAPY | W/O COM | NCTIONS<br>IPROMISED<br>RAPY |
|---------------------------------------|------------------------|----------------------------------|--------|-----------------------------|---------|------------------------------|
|                                       |                        |                                  | QTY    | RATE                        | QTY     | RATE                         |
| US Regulatory Approval                | July 2020              | Electrical Component             | 0      | 0.00%                       | 6       | 0.02%                        |
| Registered US Implants                | 35,389                 | Electrical Interconnect          | 0      | 0.00%                       | 0       | 0.00%                        |
| Estimated Active US Implants          | 29,752                 | Battery                          | 0      | 0.00%                       | 0       | 0.00%                        |
| Estimated Longevity                   | (see table on page 34) | High Voltage Capacitor           | 0      | 0.00%                       | 2       | < 0.01%                      |
| Normal Battery Depletion              | 1                      | Software/Firmware                | 0      | 0.00%                       | 0       | 0.00%                        |
| Max. Delivered Energy                 | 40 joules              | Mechanical                       | 0      | 0.00%                       | 2       | < 0.01%                      |
| Number of US Advisories (see pg. 204) | One                    | Possible Early Battery Depletion | 0      | 0.00%                       | 0       | 0.00%                        |
|                                       |                        | Other                            | 2      | < 0.01%                     | 1       | <0.01%                       |
|                                       |                        | Total                            | 2      | <0.01%                      | 11      | 0.03%                        |





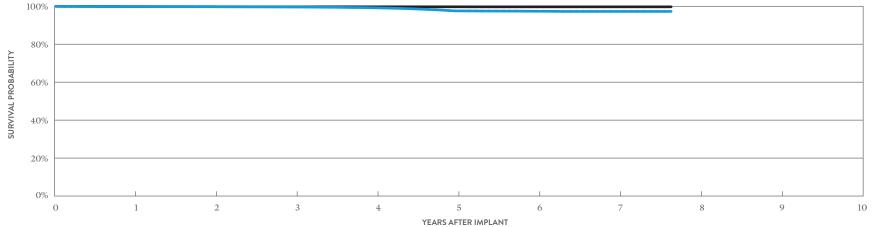
#### INCLUDING NORMAL BATTERY DEPLETION -

| YEAR                 | 1      | 2      | 3      | AT 38 MONTHS |
|----------------------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.92% | 99.84% | 99.84% | 99.84%       |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.03%  | 0.03%        |
| SAMPLE SIZE          | 27,700 | 14,080 | 4,380  | 320          |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | AT 38 MONTHS |
|----------------------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.93% | 99.85% | 99.85% | 99.85%       |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.03%  | 0.03%        |

| Quadra Assura MP <sup>®</sup> CRT-D<br>MODEL CD3369-40Q* |                        | MALFUNCTIONS<br>W/ COMPROMISED<br>THERAPY |     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |     |        |
|--|------------------------|---|-----|--|-----|--------|
|  |                        |   | QTY | RATE                                       | QTY | RATE   |
| US Regulatory Approval                                   | February 2016          | Electrical Component                      | 7   | <0.01%                                     | 21  | 0.03%  |
| Registered US Implants                                   | 77,783                 | Electrical Interconnect                   | 10  | 0.01%                                      | 1   | <0.01% |
| Estimated Active US Implants                             | 47,431                 | Battery                                   | 0   | 0.00%                                      | 3   | <0.01% |
| Estimated Longevity                                      | (see table on page 34) | High Voltage Capacitor                    | 0   | 0.00%                                      | 2   | <0.01% |
| Normal Battery Depletion                                 | 308                    | Software/Firmware                         | 0   | 0.00%                                      | 0   | 0.00%  |
| Max. Delivered Energy                                    | 40 joules              | Mechanical                                | 1   | < 0.01%                                    | 5   | <0.01% |
| Number of US Advisories (see pg. 206)                    | One                    | Possible Early Battery Depletion          | 0   | 0.00%                                      | 2   | <0.01% |
|  |                        | Other                                     | 4   | < 0.01%                                    | 19  | 0.02%  |
|  |                        | Total                                     | 22  | 0.03%                                      | 53  | 0.07%  |



| YEARS | AFTER | IMPL | AN. |
|-------|-------|------|-----|
|-------|-------|------|-----|

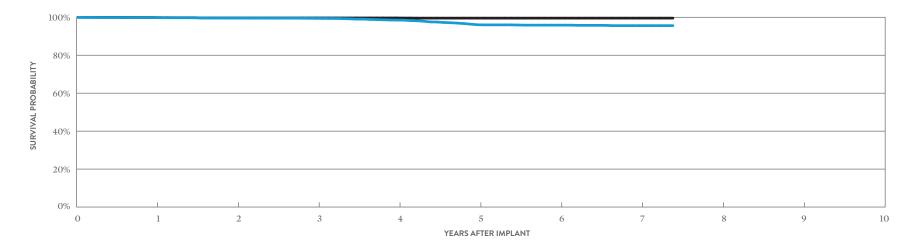
| INCLUDING NORMAL BATTERY | DEPLETION |  |
|--------------------------|-----------|--|
| VELD                     |           |  |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | AT 92 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.84% | 99.77% | 99.64% | 99.22% | 97.57% | 97.38% | 97.29% | 97.29%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.02%  | 0.02%  | 0.04%  | 0.08%  | 0.09%  | 0.09%  | 0.09%        |
| SAMPLE SIZE          | 72,660 | 63,460 | 54,650 | 43,320 | 30,460 | 18,980 | 9,180  | 450          |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | AT 92 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.85% | 99.79% | 99.74% | 99.73% | 99.73% | 99.71% | 99.71% | 99.71%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.02%  | 0.02%  | 0.02%  | 0.02%  | 0.02%  | 0.02%  | 0.02%        |

| Quadra Assura MP <sup>®</sup> CRT-D<br>MODEL CD3369-40C* |                        |       | W/ COMP                     | NCTIONS<br>ROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |     |        |
|--|------------------------|-------|-----------------------------|----------------------------|--|-----|--------|
|  |                        |       |                             | QTY                        | RATE                                       | QTY | RATE   |
| US Regulatory Approval                                   | February 2016          | Elect | trical Component            | 2                          | 0.02%                                      | 3   | 0.03%  |
| Registered US Implants                                   | 11,593                 | Elect | trical Interconnect         | 2                          | 0.02%                                      | 0   | 0.00%  |
| Estimated Active US Implants                             | 7,095                  | Batte | ery                         | 0                          | 0.00%                                      | 0   | 0.00%  |
| Estimated Longevity                                      | (see table on page 34) | High  | Voltage Capacitor           | 1                          | < 0.01%                                    | 1   | <0.01% |
| Normal Battery Depletion                                 | 68                     | Softv | vare/Firmware               | 0                          | 0.00%                                      | 0   | 0.00%  |
| Max. Delivered Energy                                    | 40 joules              | Mech  | hanical                     | 0                          | 0.00%                                      | 2   | 0.02%  |
| Number of US Advisories (see pg. 206)                    | One                    | Possi | ble Early Battery Depletion | 0                          | 0.00%                                      | 2   | 0.02%  |
|  |                        | Othe  | r                           | 1                          | < 0.01%                                    | 3   | 0.03%  |
|  |                        | Tota  | 1                           | 6                          | 0.05%                                      | 11  | 0.09%  |



| INCLUDING | NORMAL | BATTERY | DEPLETIO | N |
|-----------|--------|---------|----------|---|
|           |        |         |          |   |

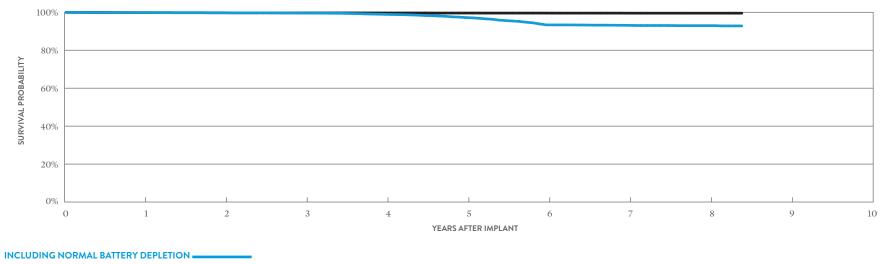
| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | AT 89 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.82% | 99.59% | 99.44% | 98.53% | 96.07% | 95.86% | 95.60% | 95.60%       |
| ±1 STANDARD ERROR    | 0.04%  | 0.07%  | 0.08%  | 0.15%  | 0.28%  | 0.30%  | 0.33%  | 0.33%        |
| SAMPLE SIZE          | 10,390 | 8,330  | 6,700  | 5,250  | 3,910  | 2,630  | 1,380  | 260          |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | AT 89 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.86% | 99.66% | 99.64% | 99.64% | 99.55% | 99.55% | 99.55% | 99.55%       |
| ± 1 STANDARD ERROR   | 0.03%  | 0.06%  | 0.06%  | 0.06%  | 0.08%  | 0.08%  | 0.08%  | 0.08%        |

\*Parylene coating.

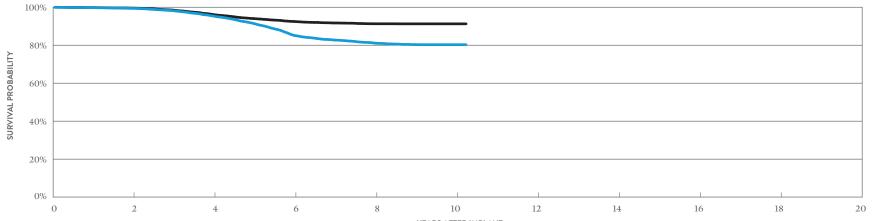
| Quadra Assura™ CRT-D<br>MODEL CD3365-40Q* (NON-BA | Quadra Assura™ CRT-D<br>MODEL CD3365-40Q* (NON-BATTERY ADVISORY POPULATION) |  |                                  |     |         |    | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |  |  |
|---|---|--|----------------------------------|-----|---------|----|--|--|--|
|   |   |  |                                  | QTY | RATE    | QT | r RATE                                     |  |  |
| US Regulatory Approval                            | June 2013   |  | Electrical Component             | 2   | 0.01%   | 7  | 0.04%                                      |  |  |
| Registered US Implants                            | 16,837  |  | Electrical Interconnect          | 3   | 0.02%   | 0  | 0.00%                                      |  |  |
| Estimated Active US Implants                      | 7,478   |  | Battery                          | 1   | < 0.01% | 0  | 0.00%                                      |  |  |
| Estimated Longevity                               | (see table on page 34)  |  | High Voltage Capacitor           | 0   | 0.00%   | 0  | 0.00%                                      |  |  |
| Normal Battery Depletion                          | 267   |  | Software/Firmware                | 1   | < 0.01% | 0  | 0.00%                                      |  |  |
| Max. Delivered Energy                             | 40 joules   |  | Mechanical                       | 0   | 0.00%   | 4  | 0.02%                                      |  |  |
| Number of US Advisories (see pg. 206)             | One   |  | Possible Early Battery Depletion | 1   | < 0.01% | 3  | 0.02%                                      |  |  |
|   |   |  | Other                            | 2   | 0.01%   | 6  | 0.04%                                      |  |  |
|   |   |  | Total                            | 10  | 0.06%   | 20 | 0.12%                                      |  |  |



| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 101 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.81% | 99.74% | 99.59% | 98.91% | 97.22% | 93.36% | 93.13% | 92.95% | 92.82%        |
| ±1 STANDARD ERROR    | 0.03%  | 0.04%  | 0.05%  | 0.09%  | 0.15%  | 0.24%  | 0.25%  | 0.26%  | 0.27%         |
| SAMPLE SIZE          | 16,000 | 14,540 | 13,250 | 11,950 | 10,680 | 9,330  | 7,640  | 4,390  | 440           |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 101 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.81% | 99.74% | 99.68% | 99.63% | 99.59% | 99.57% | 99.52% | 99.52% | 99.52%        |
| ±1 STANDARD ERROR    | 0.03%  | 0.04%  | 0.05%  | 0.05%  | 0.05%  | 0.06%  | 0.06%  | 0.06%  | 0.06%         |

| Quadra Assura <sup>™</sup> CRT-D<br>MODEL CD3365-40Q* (BATTERY A | Quadra Assura™ CRT-D<br>MODEL CD3365-40Q* (BATTERY ADVISORY POPULATION) |                                  |     |         |     |        |  |
|--|---|----------------------------------|-----|---------|-----|--------|--|
|  |   |                                  | QTY | RATE    | QTY | RATE   |  |
| US Regulatory Approval   | June 2013   | Electrical Component             | 6   | 0.02%   | 17  | 0.07%  |  |
| Registered US Implants   | 24,249  | Electrical Interconnect          | 10  | 0.04%   | 1   | <0.01% |  |
| Estimated Active US Implants                                     | 6,253   | Battery                          | 3   | 0.01%   | 18  | 0.07%  |  |
| Estimated Longevity  | (see table on page 34)  | High Voltage Capacitor           | 1   | < 0.01% | 0   | 0.00%  |  |
| Normal Battery Depletion   | 626   | Software/Firmware                | 1   | < 0.01% | 3   | 0.01%  |  |
| Max. Delivered Energy  | 40 joules   | Mechanical                       | 0   | 0.00%   | 2   | <0.01% |  |
| Number of US Advisories (see pgs. 206, 207)                      | Three   | Possible Early Battery Depletion | 43  | 0.18%   | 422 | 1.74%  |  |
|  |   | Other                            | 6   | 0.02%   | 7   | 0.03%  |  |
|  |   | Total                            | 70  | 0.29%   | 470 | 1.94%  |  |





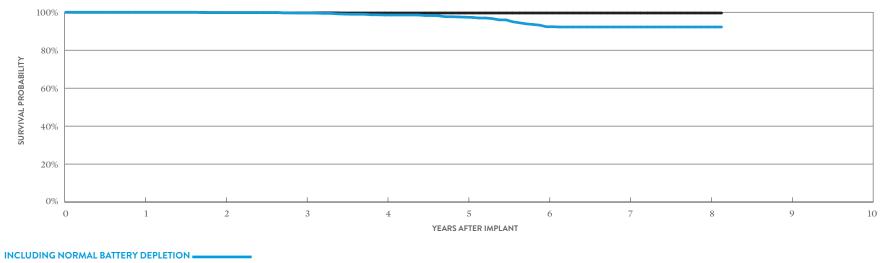
INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 123 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.40% | 95.37% | 85.16% | 81.11% | 80.29% | 80.29%        |
| ±1 STANDARD ERROR    | 0.05%  | 0.15%  | 0.28%  | 0.32%  | 0.34%  | 0.34%         |
| SAMPLE SIZE          | 20,120 | 16,020 | 12,990 | 9,110  | 2,210  | 230           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 123 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.55% | 96.16% | 92.51% | 91.31% | 91.28% | 91.28%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.14%  | 0.21%  | 0.23%  | 0.23%  | 0.23%         |

| Quadra Assura <sup>™</sup> CRT-D<br>MODEL CD3365-40C* (NON-BA | Quadra Assura™ CRT-D<br>MODEL CD3365-40C* (NON-BATTERY ADVISORY POPULATION) |  |                                  |     |       |     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |  |  |
|---|---|--|----------------------------------|-----|-------|-----|--|--|--|
|   |   |  |                                  | QTY | RATE  | QTY | RATE                                       |  |  |
| US Regulatory Approval  | June 2013   |  | Electrical Component             | 0   | 0.00% | 1   | 0.04%                                      |  |  |
| Registered US Implants  | 2,705   |  | Electrical Interconnect          | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Estimated Active US Implants                                  | 1,245   |  | Battery                          | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Estimated Longevity   | (see table on page 34)  |  | High Voltage Capacitor           | 2   | 0.07% | 0   | 0.00%                                      |  |  |
| Normal Battery Depletion                                      | 48  |  | Software/Firmware                | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Max. Delivered Energy   | 40 joules   |  | Mechanical                       | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Number of US Advisories (see pg. 206)                         | One   |  | Possible Early Battery Depletion | 0   | 0.00% | 0   | 0.00%                                      |  |  |
|   |   |  | Other                            | 1   | 0.04% | 0   | 0.00%                                      |  |  |
|   |   |  | Total                            | 3   | 0.11% | 1   | 0.04%                                      |  |  |



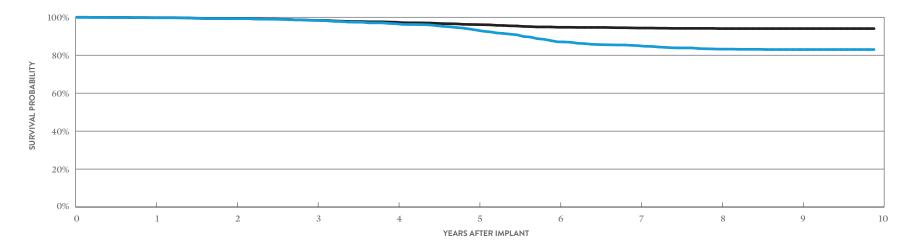
| YEAR                 | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 98 MONTHS |
|----------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 100.00% | 99.82% | 99.62% | 98.56% | 97.42% | 92.38% | 92.24% | 92.24% | 92.24%       |
| ± 1 STANDARD ERROR   | 0.00%   | 0.09%  | 0.13%  | 0.26%  | 0.36%  | 0.63%  | 0.68%  | 0.68%  | 0.68%        |
| SAMPLE SIZE          | 2,550   | 2,290  | 2,080  | 1,870  | 1,660  | 1,440  | 1,130  | 620    | 250          |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 98 MONTHS |
|----------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 100.00% | 99.82% | 99.72% | 99.62% | 99.62% | 99.62% | 99.62% | 99.62% | 99.62%       |
| ±1 STANDARD ERROR    | 0.00%   | 0.09%  | 0.11%  | 0.14%  | 0.14%  | 0.14%  | 0.14%  | 0.14%  | 0.14%        |

\*Parylene coating.

| Quadra Assura <sup>™</sup> CRT-D<br>MODEL CD3365-40C* (BATTERY A | W/ COMP                | NCTIONS<br>ROMISED<br>RAPY       | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|--|------------------------|----------------------------------|--|-------|-----|-------|
|  |                        |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval   | June 2013              | Electrical Component             | 6  | 0.11% | 2   | 0.04% |
| Registered US Implants   | 5,626                  | Electrical Interconnect          | 2  | 0.04% | 0   | 0.00% |
| Estimated Active US Implants                                     | 1,614                  | Battery                          | 1  | 0.02% | 1   | 0.02% |
| Estimated Longevity  | (see table on page 34) | High Voltage Capacitor           | 0  | 0.00% | 0   | 0.00% |
| Normal Battery Depletion   | 131                    | Software/Firmware                | 0  | 0.00% | 1   | 0.02% |
| Max. Delivered Energy  | 40 joules              | Mechanical                       | 0  | 0.00% | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)                      | Three                  | Possible Early Battery Depletion | 8  | 0.14% | 59  | 1.05% |
|  |                        | Other                            | 3  | 0.05% | 2   | 0.04% |
|  |                        | Total                            | 20   | 0.36% | 65  | 1.16% |



INCLUDING NORMAL BATTERY DEPLETION

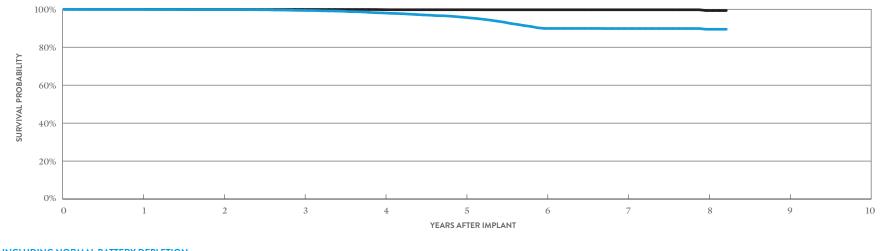
| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 119 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.74% | 99.27% | 98.38% | 96.61% | 93.23% | 87.07% | 85.03% | 83.22% | 83.00% | 83.00%        |
| ± 1 STANDARD ERROR   | 0.07%  | 0.12%  | 0.19%  | 0.29%  | 0.41%  | 0.58%  | 0.63%  | 0.68%  | 0.69%  | 0.69%         |
| SAMPLE SIZE          | 5,210  | 4,460  | 3,840  | 3,390  | 3,070  | 2,750  | 2,420  | 1,990  | 1,320  | 250           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 119 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.78% | 99.31% | 98.42% | 97.41% | 96.15% | 94.73% | 94.33% | 94.04% | 94.04% | 94.04%        |
| ±1 STANDARD ERROR    | 0.06%  | 0.12%  | 0.19%  | 0.25%  | 0.32%  | 0.38%  | 0.40%  | 0.41%  | 0.42%  | 0.42%         |

\*Parylene coating.

| Unify Assura™ CRT-D<br>MODEL CD3357-40Q* (NON-BA | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |    |         |
|--|------------------------|----------------------------------|--|---------|----|---------|
|  | QTY                    | RATE                             | QT   | RATE    |    |         |
| US Regulatory Approval                           | June 2013              | Electrical Component             | 0  | 0.00%   | 6  | 0.03%   |
| Registered US Implants                           | 22,480                 | Electrical Interconnect          | 0  | 0.00%   | 0  | 0.00%   |
| Estimated Active US Implants                     | 12,896                 | Battery                          | 0  | 0.00%   | 1  | < 0.01% |
| Estimated Longevity                              | (see table on page 34) | High Voltage Capacitor           | 1  | < 0.01% | 0  | 0.00%   |
| Normal Battery Depletion                         | 329                    | Software/Firmware                | 0  | 0.00%   | 0  | 0.00%   |
| Max. Delivered Energy                            | 40 joules              | Mechanical                       | 0  | 0.00%   | 1  | <0.01%  |
| Number of US Advisories (see pg. 206)            | One                    | Possible Early Battery Depletion | 0  | 0.00%   | 2  | <0.01%  |
|  |                        | Other                            | 1  | < 0.01% | 5  | 0.02%   |
|  |                        | Total                            | 2  | <0.01%  | 15 | 0.07%   |



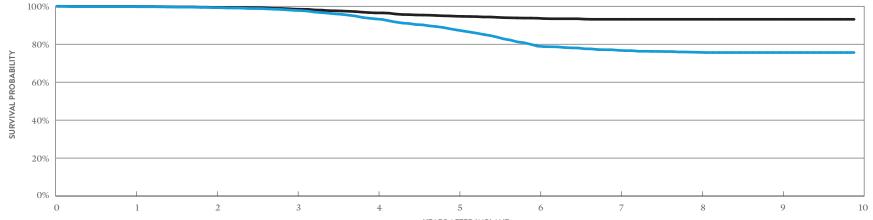
| INCLUDING | NORMAL BAI | IERT DEPLET |  |
|-----------|------------|-------------|--|
|           |            |             |  |
|           |            |             |  |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 99 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.96% | 99.84% | 99.39% | 98.10% | 95.78% | 89.90% | 89.85% | 89.47% | 89.47%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.03%  | 0.06%  | 0.12%  | 0.19%  | 0.33%  | 0.34%  | 0.34%  | 0.43%        |
| SAMPLE SIZE          | 20,250 | 16,600 | 13,980 | 11,650 | 9,170  | 6,450  | 3,840  | 1,510  | 260          |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 99 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.96% | 99.89% | 99.89% | 99.81% | 99.76% | 99.74% | 99.74% | 99.32% | 99.32%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.02%  | 0.02%  | 0.03%  | 0.04%  | 0.05%  | 0.05%  | 0.05%  | 0.30%        |

| Unify Assura <sup>™</sup> CRT-D<br>MODEL CD3357-40Q* (BATTERY A | W/ COMP                | ICTIONS<br>ROMISED<br>RAPY       | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|---|------------------------|----------------------------------|--|-------|-----|-------|
|   |                        |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval  | June 2013              | Electrical Component             | 1  | 0.02% | 2   | 0.04% |
| Registered US Implants  | 5,458                  | Electrical Interconnect          | 2  | 0.04% | 0   | 0.00% |
| Estimated Active US Implants                                    | 1,406                  | Battery                          | 0  | 0.00% | 0   | 0.00% |
| Estimated Longevity   | (see table on page 34) | High Voltage Capacitor           | 2  | 0.04% | 0   | 0.00% |
| Normal Battery Depletion  | 225                    | Software/Firmware                | 0  | 0.00% | 0   | 0.00% |
| Max. Delivered Energy   | 40 joules              | Mechanical                       | 0  | 0.00% | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)                     | Three                  | Possible Early Battery Depletion | 11   | 0.20% | 75  | 1.37% |
|   |                        | Other                            | 0  | 0.00% | 3   | 0.05% |
|   |                        | Total                            | 16   | 0.29% | 80  | 1.47% |



YEARS AFTER IMPLANT

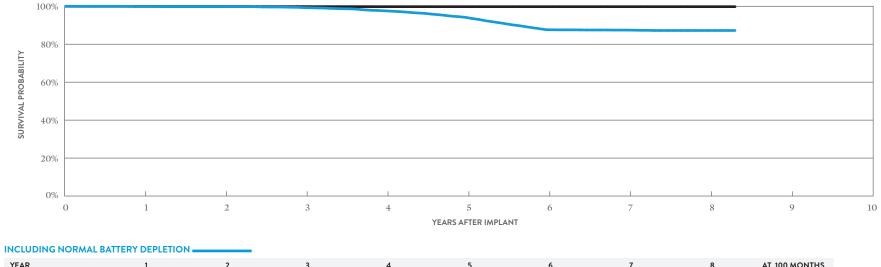
INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 119 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.79% | 99.28% | 97.83% | 93.35% | 87.53% | 79.00% | 76.80% | 75.73% | 75.63% | 75.63%        |
| ± 1 STANDARD ERROR   | 0.06%  | 0.11%  | 0.22%  | 0.40%  | 0.55%  | 0.69%  | 0.74%  | 0.76%  | 0.76%  | 0.76%         |
| SAMPLE SIZE          | 5,070  | 4,380  | 3,820  | 3,390  | 3,000  | 2,620  | 2,230  | 1,800  | 1,150  | 210           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 119 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.90% | 99.39% | 98.49% | 96.51% | 94.74% | 93.71% | 93.14% | 93.14% | 93.14% | 93.14%        |
| ±1 STANDARD ERROR    | 0.04%  | 0.10%  | 0.18%  | 0.30%  | 0.37%  | 0.42%  | 0.45%  | 0.45%  | 0.45%  | 0.45%         |

| Unify Assura™ CRT-D<br>MODEL CD3357-40C* (NON-BA | W/ COMP                | ICTIONS<br>ROMISED<br>RAPY       | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |        |
|--|------------------------|----------------------------------|--|-------|-----|--------|
|  |                        |                                  | QTY  | RATE  | QTY | RATE   |
| US Regulatory Approval                           | June 2013              | Electrical Component             | 0  | 0.00% | 2   | 0.01%  |
| Registered US Implants                           | 19,739                 | Electrical Interconnect          | 2  | 0.01% | 1   | <0.01% |
| Estimated Active US Implants                     | 10,749                 | Battery                          | 0  | 0.00% | 2   | 0.01%  |
| Estimated Longevity                              | (see table on page 34) | High Voltage Capacitor           | 0  | 0.00% | 0   | 0.00%  |
| Normal Battery Depletion                         | 411                    | Software/Firmware                | 0  | 0.00% | 0   | 0.00%  |
| Max. Delivered Energy                            | 40 joules              | Mechanical                       | 0  | 0.00% | 1   | <0.01% |
| Number of US Advisories (see pg. 206)            | One                    | Possible Early Battery Depletion | 0  | 0.00% | 1   | <0.01% |
|  |                        | Other                            | 0  | 0.00% | 5   | 0.03%  |
|  |                        | Total                            | 2  | 0.01% | 12  | 0.06%  |



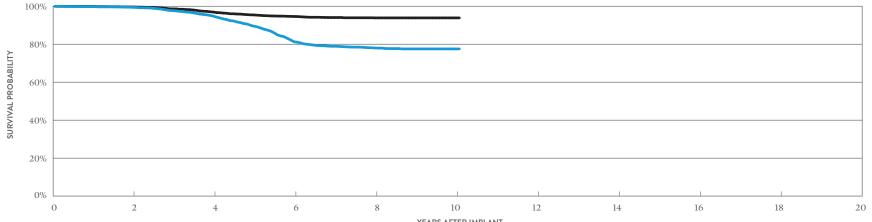
| ILAR                 | 1      | Z      | 3      | 4      | 5      | 0      | /      | 0      | AT 100 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.94% | 99.84% | 99.29% | 97.60% | 94.17% | 87.65% | 87.46% | 87.24% | 87.24%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.06%  | 0.14%  | 0.23%  | 0.36%  | 0.37%  | 0.38%  | 0.38%         |
| SAMPLE SIZE          | 18,040 | 15,070 | 12,730 | 10,620 | 8,540  | 6,450  | 4,260  | 1,930  | 310           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 100 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.94% | 99.89% | 99.83% | 99.79% | 99.79% | 99.79% | 99.79% | 99.79% | 99.79%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.03%  | 0.04%  | 0.04%  | 0.04%  | 0.04%  | 0.04%  | 0.04%         |

\*Parylene coating.

| Unify Assura <sup>™</sup> CRT-D<br>MODEL CD3357-40C* (BATTERY A |                        | W/ COMP | ACTIONS<br>ROMISED<br>RAPY       | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|---|------------------------|---------|----------------------------------|--|-------|-----|-------|
|   |                        |         |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval  | June 2013              |         | Electrical Component             | 2  | 0.02% | 3   | 0.03% |
| Registered US Implants  | 9,711                  |         | Electrical Interconnect          | 2  | 0.02% | 1   | 0.01% |
| Estimated Active US Implants                                    | 2,748                  |         | Battery                          | 0  | 0.00% | 6   | 0.06% |
| Estimated Longevity   | (see table on page 34) |         | High Voltage Capacitor           | 1  | 0.01% | 0   | 0.00% |
| Normal Battery Depletion  | 376                    |         | Software/Firmware                | 0  | 0.00% | 2   | 0.02% |
| Max. Delivered Energy   | 40 joules              |         | Mechanical                       | 0  | 0.00% | 1   | 0.01% |
| Number of US Advisories (see pgs. 206, 207)                     | Three                  |         | Possible Early Battery Depletion | 19   | 0.20% | 109 | 1.12% |
|   |                        |         | Other                            | 1  | 0.01% | 3   | 0.03% |
|   |                        |         | Total                            | 25   | 0.26% | 125 | 1.29% |



YEARS AFTER IMPLANT

#### INCLUDING NORMAL BATTERY DEPLETION -

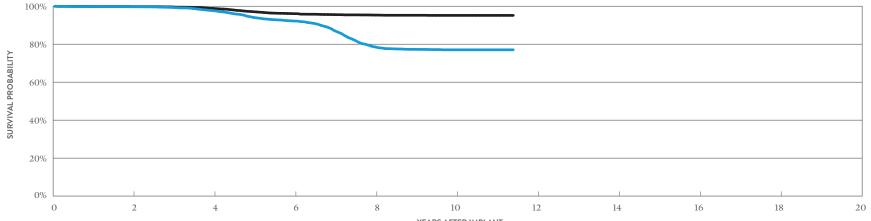
| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 121 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.45% | 94.83% | 81.28% | 78.02% | 77.54% | 77.54%        |
| ±1 STANDARD ERROR    | 0.08%  | 0.26%  | 0.50%  | 0.55%  | 0.56%  | 0.56%         |
| SAMPLE SIZE          | 7,910  | 6,090  | 4,820  | 3,490  | 880    | 210           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 121 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.62% | 96.94% | 94.62% | 93.88% | 93.88% | 93.88%        |
| ± 1 STANDARD ERROR   | 0.07%  | 0.21%  | 0.29%  | 0.31%  | 0.32%  | 0.32%         |

\*Parylene coating.

| Quadra Assura <sup>™</sup> CRT-D<br>MODEL CD3265-40Q* (BATTERY) | W/ COM                 | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |        |
|---|------------------------|----------------------------------|--|---------|-----|--------|
|   |                        |                                  | QTY  | RATE    | QTY | RATE   |
| US Regulatory Approval  | May 2012               | Electrical Component             | 2  | 0.01%   | 6   | 0.04%  |
| Registered US Implants  | 13,959                 | Electrical Interconnect          | 2  | 0.01%   | 0   | 0.00%  |
| Estimated Active US Implants                                    | 3,246                  | Battery                          | 1  | < 0.01% | 7   | 0.05%  |
| Estimated Longevity   | (see table on page 34) | High Voltage Capacitor           | 0  | 0.00%   | 0   | 0.00%  |
| Normal Battery Depletion  | 492                    | Software/Firmware                | 1  | < 0.01% | 2   | 0.01%  |
| Max. Delivered Energy   | 40 joules              | Mechanical                       | 0  | 0.00%   | 3   | 0.02%  |
| Number of US Advisories (see pgs. 206, 207)                     | Three                  | Possible Early Battery Depletion | 24   | 0.17%   | 109 | 0.78%  |
|   |                        | Other                            | 1  | < 0.01% | 1   | <0.01% |
|   |                        | Total                            | 31   | 0.22%   | 128 | 0.92%  |



YEARS AFTER IMPLANT

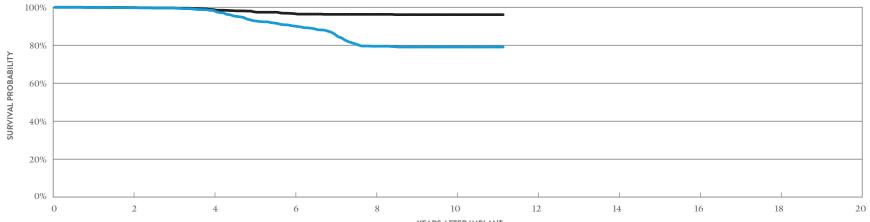
#### INCLUDING NORMAL BATTERY DEPLETION -

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 137 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.72% | 97.69% | 92.24% | 78.58% | 77.07% | 77.07%        |
| ± 1 STANDARD ERROR   | 0.05%  | 0.15%  | 0.29%  | 0.49%  | 0.51%  | 0.51%         |
| SAMPLE SIZE          | 11,670 | 9,250  | 7,230  | 5,010  | 3,300  | 210           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 137 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.83% | 98.88% | 96.09% | 95.35% | 95.20% | 95.20%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.11%  | 0.21%  | 0.24%  | 0.24%  | 0.24%         |

| Quadra Assura <sup>™</sup> CRT-D<br>MODEL CD3265-40 (BATTERY AD | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|---|------------------------|----------------------------------|--|-------|-----|-------|
| MODEL CD3203 40 (DATTERT AD                                     |                        |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval  | May 2012               | Electrical Component             | 0  | 0.00% | 0   | 0.00% |
| Registered US Implants  | 4,026                  | Electrical Interconnect          | 1  | 0.02% | 0   | 0.00% |
| Estimated Active US Implants                                    | 997                    | Battery                          | 0  | 0.00% | 2   | 0.05% |
| Estimated Longevity   | (see table on page 34) | High Voltage Capacitor           | 0  | 0.00% | 0   | 0.00% |
| Normal Battery Depletion  | 134                    | Software/Firmware                | 0  | 0.00% | 1   | 0.02% |
| Max. Delivered Energy   | 40 joules              | Mechanical                       | 0  | 0.00% | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)                     | Three                  | Possible Early Battery Depletion | 6  | 0.15% | 19  | 0.47% |
|   |                        | Other                            | 7  | 0.17% | 2   | 0.05% |
|   |                        | Total                            | 14   | 0.35% | 24  | 0.60% |



YEARS AFTER IMPLANT

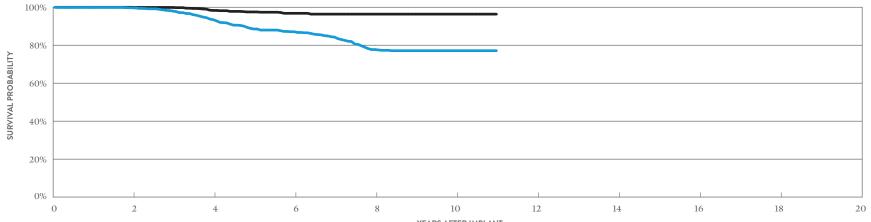
#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 134 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.76% | 98.30% | 90.11% | 79.47% | 79.07% | 79.07%        |
| ± 1 STANDARD ERROR   | 0.08%  | 0.24%  | 0.62%  | 0.91%  | 0.92%  | 0.92%         |
| SAMPLE SIZE          | 3,310  | 2,560  | 1,930  | 1,410  | 1,000  | 210           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 134 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.82% | 98.79% | 96.65% | 96.27% | 96.11% | 96.11%        |
| ± 1 STANDARD ERROR   | 0.07%  | 0.20%  | 0.37%  | 0.40%  | 0.42%  | 0.42%         |

| Unify Assura <sup>™</sup> CRT-D<br>MODEL CD3257-40Q* (BATTERY A |                        | W/ COMP | NCTIONS<br>ROMISED<br>RAPY       | W/O CO | UNCTIONS<br>MPROMISED<br>IERAPY |     |       |
|---|------------------------|---------|----------------------------------|--------|---------------------------------|-----|-------|
|   |                        |         |                                  | QTY    | RATE                            | QTY | RATE  |
| US Regulatory Approval  | May 2012               |         | Electrical Component             | 0      | 0.00%                           | 0   | 0.00% |
| Registered US Implants  | 2,716                  |         | Electrical Interconnect          | 0      | 0.00%                           | 0   | 0.00% |
| Estimated Active US Implants                                    | 636                    |         | Battery                          | 0      | 0.00%                           | 2   | 0.07% |
| Estimated Longevity   | (see table on page 34) |         | High Voltage Capacitor           | 0      | 0.00%                           | 0   | 0.00% |
| Normal Battery Depletion  | 109                    |         | Software/Firmware                | 1      | 0.04%                           | 0   | 0.00% |
| Max. Delivered Energy   | 40 joules              |         | Mechanical                       | 0      | 0.00%                           | 1   | 0.04% |
| Number of US Advisories (see pgs. 206, 207)                     | Three                  |         | Possible Early Battery Depletion | 5      | 0.18%                           | 12  | 0.44% |
|   |                        |         | Other                            | 2      | 0.07%                           | 0   | 0.00% |
|   |                        |         | Total                            | 8      | 0.29%                           | 15  | 0.55% |



YEARS AFTER IMPLANT

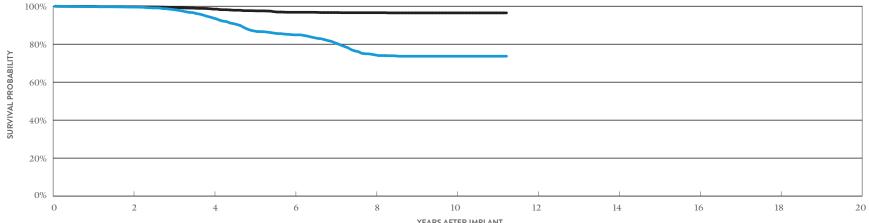
#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 132 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.73% | 93.44% | 87.11% | 77.72% | 77.13% | 77.13%        |
| ± 1 STANDARD ERROR   | 0.11%  | 0.58%  | 0.84%  | 1.14%  | 1.15%  | 1.15%         |
| SAMPLE SIZE          | 2,180  | 1,620  | 1,220  | 900    | 660    | 200           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2       | 4      | 6      | 8      | 10     | AT 132 MONTHS |
|----------------------|---------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 100.00% | 98.33% | 96.82% | 96.38% | 96.38% | 96.38%        |
| ± 1 STANDARD ERROR   | 0.00%   | 0.31%  | 0.46%  | 0.50%  | 0.50%  | 0.50%         |

| Unify Assura™ CRT-D<br>MODEL CD3257-40 (BATTERY AD | MALFUNCTIONS<br>W/ COMPROMISED<br>THERAPY |                                  | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|--|---|----------------------------------|--|-------|-----|-------|
|  |   |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval                             | May 2012                                  | Electrical Component             | 6  | 0.09% | 3   | 0.04% |
| Registered US Implants                             | 6,744                                     | Electrical Interconnect          | 1  | 0.01% | 0   | 0.00% |
| Estimated Active US Implants                       | 1,615                                     | Battery                          | 1  | 0.01% | 1   | 0.01% |
| Estimated Longevity                                | (see table on page 34)                    | High Voltage Capacitor           | 0  | 0.00% | 0   | 0.00% |
| Normal Battery Depletion                           | 328                                       | Software/Firmware                | 0  | 0.00% | 4   | 0.06% |
| Max. Delivered Energy                              | 40 joules                                 | Mechanical                       | 0  | 0.00% | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)        | Three                                     | Possible Early Battery Depletion | 10   | 0.15% | 30  | 0.44% |
|  |   | Other                            | 1  | 0.01% | 2   | 0.03% |
|  |   | Total                            | 19   | 0.28% | 40  | 0.59% |



| YEARS | AFTER | IMPLANT |
|-------|-------|---------|
|-------|-------|---------|

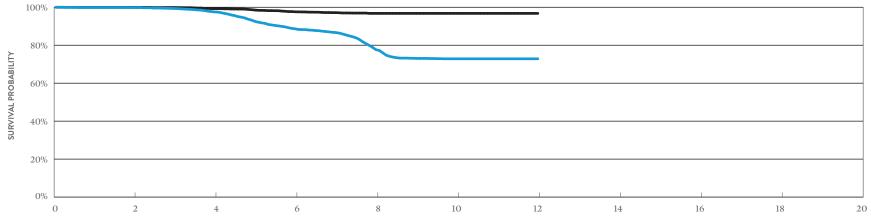
#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 135 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.57% | 93.81% | 84.94% | 74.40% | 73.69% | 73.69%        |
| ± 1 STANDARD ERROR   | 0.08%  | 0.34%  | 0.56%  | 0.74%  | 0.75%  | 0.75%         |
| SAMPLE SIZE          | 5,510  | 4,180  | 3,100  | 2,260  | 1,630  | 250           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 135 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.78% | 98.50% | 96.84% | 96.61% | 96.51% | 96.51%        |
| ± 1 STANDARD ERROR   | 0.06%  | 0.17%  | 0.28%  | 0.30%  | 0.30%  | 0.30%         |

| Unify Quadra <sup>™</sup> CRT-D<br>MODEL CD3249-40Q* (BATTERY A | MALFUNCTIONS<br>W/ COMPROMISED<br>THERAPY |                                  | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|---|---|----------------------------------|--|-------|-----|-------|
|   |   |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval  | November 2011                             | Electrical Component             | 4  | 0.04% | 3   | 0.03% |
| Registered US Implants  | 9,940                                     | Electrical Interconnect          | 0  | 0.00% | 0   | 0.00% |
| Estimated Active US Implants                                    | 2,041                                     | Battery                          | 1  | 0.01% | 1   | 0.01% |
| Estimated Longevity   | (see table on page 34)                    | High Voltage Capacitor           | 0  | 0.00% | 0   | 0.00% |
| Normal Battery Depletion  | 457                                       | Software/Firmware                | 0  | 0.00% | 0   | 0.00% |
| Max. Delivered Energy   | 40 joules                                 | Mechanical                       | 0  | 0.00% | 1   | 0.01% |
| Number of US Advisories (see pgs. 206, 207)                     | Three                                     | Possible Early Battery Depletion | 17   | 0.17% | 40  | 0.40% |
|   |   | Other                            | 4  | 0.04% | 1   | 0.01% |
|   |   | Total                            | 26   | 0.26% | 46  | 0.46% |



YEARS AFTER IMPLANT

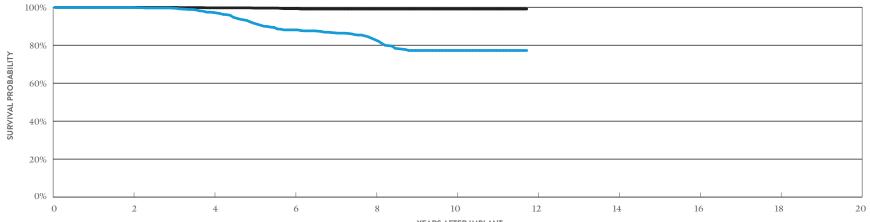
#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     |
|----------------------|--------|--------|--------|--------|--------|--------|
| SURVIVAL PROBABILITY | 99.86% | 97.58% | 88.64% | 77.63% | 72.87% | 72.87% |
| ±1 STANDARD ERROR    | 0.04%  | 0.18%  | 0.41%  | 0.59%  | 0.67%  | 0.67%  |
| SAMPLE SIZE          | 8,270  | 6,670  | 5,000  | 3,390  | 2,350  | 200    |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     |
|----------------------|--------|--------|--------|--------|--------|--------|
| SURVIVAL PROBABILITY | 99.96% | 99.29% | 97.62% | 96.78% | 96.78% | 96.78% |
| ± 1 STANDARD ERROR   | 0.02%  | 0.10%  | 0.20%  | 0.25%  | 0.25%  | 0.25%  |

| Unify Quadra <sup>™</sup> CRT-D<br>MODEL CD3249-40 (BATTERY AD | MALFUNCTIONS<br>W/ COMPROMISED<br>THERAPY |                                  | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|--|---|----------------------------------|--|-------|-----|-------|
|  |   |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval   | November 2011                             | Electrical Component             | 0  | 0.00% | 0   | 0.00% |
| Registered US Implants   | 2,767                                     | Electrical Interconnect          | 0  | 0.00% | 0   | 0.00% |
| Estimated Active US Implants                                   | 630                                       | Battery                          | 0  | 0.00% | 0   | 0.00% |
| Estimated Longevity  | (see table on page 34)                    | High Voltage Capacitor           | 0  | 0.00% | 0   | 0.00% |
| Normal Battery Depletion                                       | 121                                       | Software/Firmware                | 0  | 0.00% | 0   | 0.00% |
| Max. Delivered Energy  | 40 joules                                 | Mechanical                       | 0  | 0.00% | 1   | 0.04% |
| Number of US Advisories (see pgs. 206, 207)                    | Three                                     | Possible Early Battery Depletion | 0  | 0.00% | 5   | 0.18% |
|  |   | Other                            | 1  | 0.04% | 0   | 0.00% |
|  |   | Total                            | 1  | 0.04% | 6   | 0.22% |



YEARS AFTER IMPLANT

#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 141 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.93% | 97.29% | 88.09% | 82.89% | 77.24% | 77.24%        |
| ± 1 STANDARD ERROR   | 0.05%  | 0.37%  | 0.81%  | 0.98%  | 1.19%  | 1.19%         |
| SAMPLE SIZE          | 2,250  | 1,780  | 1,310  | 940    | 720    | 240           |

#### EXCLUDING NORMAL BATTERY DEPLETION

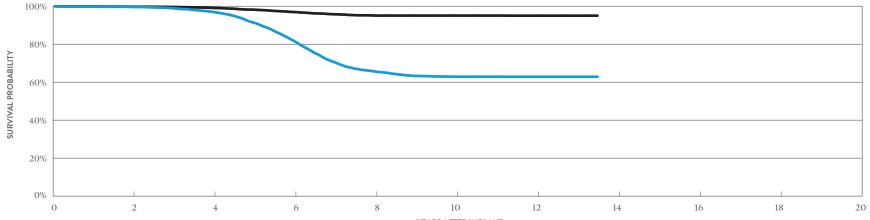
| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 141 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.93% | 99.70% | 99.25% | 99.08% | 99.08% | 99.08%        |
| ±1 STANDARD ERROR    | 0.05%  | 0.12%  | 0.22%  | 0.25%  | 0.25%  | 0.25%         |

| Unify™ CRT-D<br>MODEL CD3231-40Q (BATTE | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY |     |         |
|---|------------------------|-----------------------------|-----|---------|
|   |                        |                             | QTY | RATE    |
| US Regulatory Approval                  | May 2010               | Electrical Component        | 2   | < 0.01% |
| Registered US Implants                  | 20,709                 | Electrical Interconnect     | 1   | < 0.01% |
| Estimated Active US Implants            | 3,533                  | Battery                     | 15  | 0.07%   |
| Estimated Longevity                     | (see table on page 34) | High Voltage Capacitor      | 17  | 0.08%   |
|   |                        |                             |     |         |

| · ·   |           | 10 . |
|---|-----------|------|
| Normal Battery Depletion                    | 1,425     |      |
| Max. Delivered Energy                       | 40 joules |      |
| Number of US Advisories (see pgs. 206, 207) | Three     |      |
| Number of US Advisories (see pgs. 206, 207) | Three     |      |

|               |                                  | QTY | RATE    | QTY | RATE   |
|---------------|----------------------------------|-----|---------|-----|--------|
| 0             | Electrical Component             | 2   | < 0.01% | 6   | 0.03%  |
|               | Electrical Interconnect          | 1   | < 0.01% | 0   | 0.00%  |
|               | Battery                          | 15  | 0.07%   | 10  | 0.05%  |
| e on page 34) | High Voltage Capacitor           | 17  | 0.08%   | 6   | 0.03%  |
|               | Software/Firmware                | 0   | 0.00%   | 2   | <0.01% |
| 5             | Mechanical                       | 1   | < 0.01% | 3   | 0.01%  |
|               | Possible Early Battery Depletion | 68  | 0.33%   | 62  | 0.30%  |
|               | Other                            | 10  | 0.05%   | 7   | 0.03%  |
|               | Total                            | 114 | 0.55%   | 96  | 0.46%  |

MALFUNCTIONS W/O COMPROMISED THERAPY



YEARS AFTER IMPLANT

#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 162 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.65% | 96.98% | 81.66% | 65.62% | 62.90% | 62.87% | 62.87%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.14%  | 0.35%  | 0.45%  | 0.48%  | 0.48%  | 0.48%         |
| SAMPLE SIZE          | 16,940 | 13,510 | 9,970  | 6,230  | 4,360  | 3,430  | 230           |

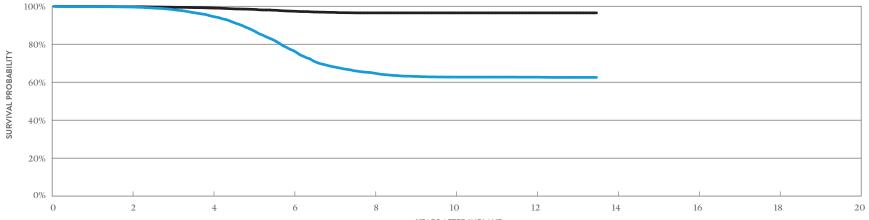
#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 162 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.81% | 99.11% | 96.97% | 95.10% | 95.10% | 95.05% | 95.05%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.07%  | 0.16%  | 0.22%  | 0.22%  | 0.22%  | 0.22%         |

### Unify<sup>™</sup> CRT-D MODEL CD3231-40 (BATTERY ADVISORY POPULATION)

| US Regulatory Approval                      | May 2010               |
|---|------------------------|
| Registered US Implants                      | 21,185                 |
| Estimated Active US Implants                | 3,996                  |
| Estimated Longevity                         | (see table on page 34) |
| Normal Battery Depletion                    | 1,527                  |
| Max. Delivered Energy                       | 40 joules              |
| Number of US Advisories (see pgs. 206, 207) | Three                  |
|   |                        |

| OPULATION) |                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | W/O COMP | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |  |  |
|------------|----------------------------------|---------|-----------------------------|----------|--|--|--|
|            |                                  | QTY     | RATE                        | QTY      | RATE                                       |  |  |
|            | Electrical Component             | 11      | 0.05%                       | 5        | 0.02%                                      |  |  |
|            | Electrical Interconnect          | 4       | 0.02%                       | 0        | 0.00%                                      |  |  |
|            | Battery                          | 10      | 0.05%                       | 5        | 0.02%                                      |  |  |
| n page 34) | High Voltage Capacitor           | 7       | 0.03%                       | 0        | 0.00%                                      |  |  |
|            | Software/Firmware                | 0       | 0.00%                       | 3        | 0.01%                                      |  |  |
|            | Mechanical                       | 1       | < 0.01%                     | 1        | < 0.01%                                    |  |  |
|            | Possible Early Battery Depletion | 33      | 0.16%                       | 50       | 0.24%                                      |  |  |
|            | Other                            | 11      | 0.05%                       | 12       | 0.06%                                      |  |  |
|            | Total                            | 77      | 0.36%                       | 76       | 0.36%                                      |  |  |





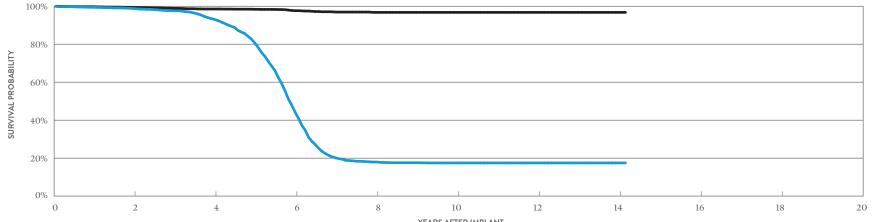
#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 162 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.63% | 94.69% | 76.69% | 64.78% | 62.69% | 62.65% | 62.54%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.18%  | 0.38%  | 0.46%  | 0.47%  | 0.47%  | 0.47%         |
| SAMPLE SIZE          | 17,020 | 13,000 | 9,190  | 6,120  | 4,790  | 3,400  | 220           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 162 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.79% | 99.06% | 97.40% | 96.52% | 96.52% | 96.52% | 96.52%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.08%  | 0.15%  | 0.18%  | 0.18%  | 0.18%  | 0.18%         |

| Promote <sup>™</sup> + CRT-D<br>MODEL CD3211-36Q* | MALFUNCTIONS MALFUNC<br>W/ COMPROMISED W/O COMPI<br>THERAPY THER/ |                                  | ROMISED |       |     |       |
|---|---|----------------------------------|---------|-------|-----|-------|
|   |   |                                  | QTY     | RATE  | QTY | RATE  |
| US Regulatory Approval                            | February 2009   | Electrical Component             | 5       | 0.06% | 4   | 0.05% |
| Registered US Implants                            | 7,755   | Electrical Interconnect          | 0       | 0.00% | 0   | 0.00% |
| Estimated Active US Implants                      | 839   | Battery                          | 10      | 0.13% | 6   | 0.08% |
| Estimated Longevity                               | (see table on page 34)  | High Voltage Capacitor           | 1       | 0.01% | 0   | 0.00% |
| Normal Battery Depletion                          | 1,506   | Software/Firmware                | 0       | 0.00% | 11  | 0.14% |
| Max. Delivered Energy                             | 36 joules   | Mechanical                       | 1       | 0.01% | 1   | 0.01% |
| Number of US Advisories (see pg. 206)             | One   | Possible Early Battery Depletion | 4       | 0.05% | 0   | 0.00% |
|   |   | Other                            | 5       | 0.06% | 6   | 0.08% |
|   |   | Total                            | 26      | 0.34% | 28  | 0.36% |



YEARS AFTER IMPLANT

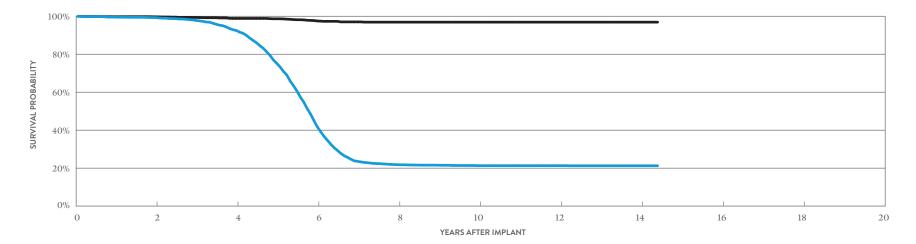
#### INCLUDING NORMAL BATTERY DEPLETION -

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 170 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.80% | 93.09% | 44.15% | 17.97% | 17.49% | 17.49% | 17.49% | 17.49%        |
| ± 1 STANDARD ERROR   | 0.13%  | 0.34%  | 0.76%  | 0.53%  | 0.53%  | 0.53%  | 0.53%  | 0.53%         |
| SAMPLE SIZE          | 6,030  | 4,570  | 2,750  | 1,210  | 1,060  | 960    | 550    | 230           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 170 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.34% | 98.56% | 97.68% | 96.78% | 96.78% | 96.78% | 96.78% | 96.78%        |
| ±1 STANDARD ERROR    | 0.09%  | 0.16%  | 0.23%  | 0.34%  | 0.34%  | 0.34%  | 0.34%  | 0.34%         |

| Promote <sup>™</sup> + CRT-D<br>MODEL CD3211-36 | MALFUNCTIONS<br>W/ COMPROMISED<br>THERAPY |                                  | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|---|---|----------------------------------|--|-------|-----|-------|
|   |   |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval                          | February 2009                             | Electrical Component             | 3  | 0.03% | 3   | 0.03% |
| Registered US Implants                          | 8,865                                     | Electrical Interconnect          | 0  | 0.00% | 0   | 0.00% |
| Estimated Active US Implants                    | 962                                       | Battery                          | 11   | 0.12% | 3   | 0.03% |
| Estimated Longevity                             | (see table on page 34)                    | High Voltage Capacitor           | 2  | 0.02% | 0   | 0.00% |
| Normal Battery Depletion                        | 1,524                                     | Software/Firmware                | 1  | 0.01% | 14  | 0.16% |
| Max. Delivered Energy                           | 36 joules                                 | Mechanical                       | 0  | 0.00% | 1   | 0.01% |
| Number of US Advisories (see pg. 206)           | One                                       | Possible Early Battery Depletion | 5  | 0.06% | 1   | 0.01% |
|   |   | Other                            | 5  | 0.06% | 3   | 0.03% |
|   |   | Total                            | 27   | 0.30% | 25  | 0.28% |



INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 173 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.29% | 92.51% | 41.88% | 21.81% | 21.32% | 21.32% | 21.28% | 21.28%        |
| ± 1 STANDARD ERROR   | 0.09%  | 0.35%  | 0.72%  | 0.57%  | 0.56%  | 0.56%  | 0.56%  | 0.56%         |
| SAMPLE SIZE          | 6,860  | 5,000  | 2,820  | 1,370  | 1,190  | 1,050  | 660    | 230           |

| EXCLUDING | NORMALE | BATTERY DE |  |
|-----------|---------|------------|--|
|           |         |            |  |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 173 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.73% | 98.86% | 97.52% | 96.90% | 96.90% | 96.90% | 96.90% | 96.90%        |
| ± 1 STANDARD ERROR   | 0.06%  | 0.14%  | 0.24%  | 0.32%  | 0.32%  | 0.32%  | 0.32%  | 0.32%         |

BATTERY LONGEVITY SUMMARY Cardiac Resynchronization Therapy (CRT) ICDs

Battery Longevity (years)

| MODELS     | FAMILY                            | NO<br>PACING | 25%<br>PACING | 50%<br>PACING | 100%<br>PACING |
|------------|-----------------------------------|--------------|---------------|---------------|----------------|
| CDHFA500Q  | Gallant HF CRT-D***               | 10.6         | 9.5           | 8.7           | 7.4            |
| CD3369-40Q | Quadra Assura MP" CRT-D*          | 9.5          | 9.9           | 8.9           | 7.4            |
| CD3369-40C | Quadra Assura MP" CRT-D*          | 8.7          | 9.9           | 8.9           | 7.4            |
| CD3365-40Q | Quadra Assura <sup>™</sup> CRT-D* | 7.4          | 9.9           | 8.9           | 7.4            |
| CD3365-40C | Quadra Assura" CRT-D*             | 11.1         | 9.9           | 8.9           | 7.4            |
| CD3357-40Q | Unify Assura <sup>¨</sup> CRT-D*  | 11.1         | 9.9           | 8.9           | 7.4            |
| CD3357-40C | Unify Assura <sup>¨</sup> CRT-D*  | 11.1         | 9.9           | 8.9           | 7.4            |
| CD3265-40Q | Quadra Assura ČRT-D*              | 11.1         | 9.9           | 8.9           | 7.4            |
| CD3265-40  | Quadra Assura <sup>™</sup> CRT-D* | 11.1         | 9.9           | 8.9           | 7.4            |
| CD3257-40Q | Unify Assura <sup>¨</sup> CRT-D*  | 11.1         | 9.9           | 8.9           | 7.4            |
| CD3257-40  | Unify Assura <sup>¨</sup> CRT-D*  | 11.1         | 9.9           | 8.9           | 7.4            |
| CD3249-40Q | Unify Quadra <sup>®</sup> CRT-D*  | 10.2         | 9.0           | 8.1           | 6.7            |
| CD3249-40  | Unify Quadra <sup>®</sup> CRT-D*  | 10.2         | 9.0           | 8.1           | 6.7            |
| CD3231-40Q | Unify" CRT-D*                     | 10.1         | 9.0           | 8.1           | 6.7            |
| CD3231-40  | Unify" CRT-D*                     | 10.1         | 9.0           | 8.1           | 6.7            |
| CD3211-36Q | Promote" + CRT-D**                | 8.2          | 7.2           | 6.5           | 5.4            |
| CD3211-36  | Promote <sup>**</sup> + CRT-D**   | 8.2          | 7.2           | 6.5           | 5.4            |
| 3207-36    | Promote" RF CRT-D**               | 8.2          | 7.2           | 6.5           | 5.4            |
| V-343      | Atlas" + HF CRT-D**               | 7.9          | 7.1           | 6.4           | 5.4            |
|            |                                   |              |               |               |                |

Pacing parameters: DDD-BiV, RV 2.5V, LV 2.5V, A 2.5V, 0.5 ms, 60 ppm, 500 ohms

\*Battery voltage range: 3.20-2.59. Three maximum charges per year.

\*\*Battery voltage range: 3.20-2.45. Four maximum charges per year as well as monthly charging during the battery's mid-life voltage range.

\*\*\*Capacitor maintenance interval: 1 charge per every 9 months.

SUMMARY INFORMATION Cardiac Resynchronization Therapy (CRT) ICDs

Survival Probability Summary

#### INCLUDING NORMAL BATTERY DEPLETION

| MODELS     | FAMILY  | 1 YEAR  | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|------------|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| CDHFA500Q  | Gallant" HF CRT-D   | 99.92%  | 99.84% | 99.84% |        |        |        |        |        |        |         |
| CD3369-40Q | Quadra Assura MP" CRT-D                                   | 99.84%  | 99.77% | 99.64% | 99.22% | 97.57% | 97.38% | 97.29% |        |        |         |
| CD3369-40C | Quadra Assura MP" CRT-D                                   | 99.82%  | 99.59% | 99.44% | 98.53% | 96.07% | 95.86% | 95.60% |        |        |         |
| CD3365-40Q | Quadra Assura" CRT-D                                      | 99.81%  | 99.74% | 99.59% | 98.91% | 97.22% | 93.36% | 93.13% | 92.95% |        |         |
| CD3365-40Q | Quadra Assura $\  CRT-D^{\dagger}$                        | 99.78%  | 99.40% | 98.20% | 95.37% | 91.45% | 85.16% | 82.72% | 81.11% | 80.34% | 80.29%  |
| CD3365-40C | Quadra Assura" CRT-D                                      | 100.00% | 99.82% | 99.62% | 98.56% | 97.42% | 92.38% | 92.24% | 92.24% |        |         |
| CD3365-40C | Quadra Assura $$ CRT-D $^{\dagger}$                       | 99.74%  | 99.27% | 98.38% | 96.61% | 93.23% | 87.07% | 85.03% | 83.22% | 83.00% |         |
| CD3357-40Q | Unify Assura" CRT-D                                       | 99.96%  | 99.84% | 99.39% | 98.10% | 95.78% | 89.90% | 89.85% | 89.47% |        |         |
| CD3357-40Q | Unify Assura CRT-D <sup>+</sup>                           | 99.79%  | 99.28% | 97.83% | 93.35% | 87.53% | 79.00% | 76.80% | 75.73% | 75.63% |         |
| CD3357-40C | Unify Assura" CRT-D                                       | 99.94%  | 99.84% | 99.29% | 97.60% | 94.17% | 87.65% | 87.46% | 87.24% |        |         |
| CD3357-40C | Unify Assura CRT-D <sup>+</sup>                           | 99.81%  | 99.45% | 97.68% | 94.83% | 89.51% | 81.28% | 78.92% | 78.02% | 77.54% | 77.54%  |
| CD3265-40Q | Quadra Assura $$ CRT-D $^{\dagger}$                       | 99.81%  | 99.72% | 99.37% | 97.69% | 94.08% | 92.24% | 87.08% | 78.58% | 77.31% | 77.07%  |
| CD3265-40  | Quadra Assura $\ CRT-D^{\dagger}$                         | 99.94%  | 99.76% | 99.63% | 98.30% | 92.89% | 90.11% | 85.87% | 79.47% | 79.07% | 79.07%  |
| CD3257-40Q | Unify Assura" CRT-D $^{\dagger}$                          | 99.92%  | 99.73% | 98.00% | 93.44% | 88.55% | 87.11% | 84.29% | 77.72% | 77.13% | 77.13%  |
| CD3257-40  | Unify Assura CRT-D <sup>+</sup>                           | 99.81%  | 99.57% | 98.30% | 93.81% | 87.02% | 84.94% | 80.83% | 74.40% | 73.69% | 73.69%  |
| CD3249-40Q | Unify Quadra" CRT-D $^{\dagger}$                          | 99.88%  | 99.86% | 99.37% | 97.58% | 92.59% | 88.64% | 86.69% | 77.63% | 73.06% | 72.87%  |
| CD3249-40  | Unify Quadra" CRT-D $^{\dagger}$                          | 99.93%  | 99.93% | 99.53% | 97.29% | 91.61% | 88.09% | 86.53% | 82.89% | 77.24% | 77.24%  |
| CD3231-40Q | Unify" CRT-D <sup>†</sup>                                 | 99.77%  | 99.65% | 98.93% | 96.98% | 91.37% | 81.66% | 70.52% | 65.62% | 63.29% | 62.90%  |
| CD3231-40  | $\text{Unify}^{\text{``}} \operatorname{CRT-D}^{\dagger}$ | 99.79%  | 99.63% | 98.32% | 94.69% | 87.37% | 76.69% | 68.10% | 64.78% | 63.05% | 62.69%  |
| CD3211-36Q | Promote" + CRT-D  | 99.47%  | 98.80% | 97.63% | 93.09% | 80.69% | 44.15% | 20.16% | 17.97% | 17.60% | 17.49%  |
| CD3211-36  | Promote" + CRT-D  | 99.54%  | 99.29% | 97.82% | 92.51% | 75.18% | 41.88% | 23.58% | 21.81% | 21.55% | 21.32%  |
|            |   |         |        |        |        |        |        |        |        |        |         |

*†Premature battery depletion advisory population.* 

Survival Probability Summary

#### **EXCLUDING NORMAL BATTERY DEPLETION**

|            | FAMILY                            | 1 YEAR  | 2 YEAR  | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|------------|-----------------------------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|---------|
| CDHFA500Q  | Gallant" HF CRT-D                 | 99.93%  | 99.85%  | 99.85% |        |        |        |        |        |        |         |
| CD3369-40Q | Quadra Assura MP" CRT-D           | 99.85%  | 99.79%  | 99.74% | 99.73% | 99.73% | 99.71% | 99.71% |        |        |         |
| CD3369-40C | Quadra Assura MP" CRT-D           | 99.86%  | 99.66%  | 99.64% | 99.64% | 99.55% | 99.55% | 99.55% |        |        |         |
| CD3365-40Q | Quadra Assura" CRT-D              | 99.81%  | 99.74%  | 99.68% | 99.63% | 99.59% | 99.57% | 99.52% | 99.52% |        |         |
| CD3365-40Q | Quadra Assura" CRT-D $^{\dagger}$ | 99.83%  | 99.55%  | 98.52% | 96.16% | 94.05% | 92.51% | 91.72% | 91.31% | 91.28% | 91.28%  |
| CD3365-40C | Quadra Assura" CRT-D              | 100.00% | 99.82%  | 99.72% | 99.62% | 99.62% | 99.62% | 99.62% | 99.62% |        |         |
| CD3365-40C | Quadra Assura" CRT-D <sup>†</sup> | 99.78%  | 99.31%  | 98.42% | 97.41% | 96.15% | 94.73% | 94.33% | 94.04% | 94.04% |         |
| CD3357-40Q | Unify Assura" CRT-D               | 99.96%  | 99.89%  | 99.89% | 99.81% | 99.76% | 99.74% | 99.74% | 99.32% |        |         |
| CD3357-40Q | Unify Assura" CRT-D $^{\dagger}$  | 99.90%  | 99.39%  | 98.49% | 96.51% | 94.74% | 93.71% | 93.14% | 93.14% | 93.14% |         |
| CD3357-40C | Unify Assura" CRT-D               | 99.94%  | 99.89%  | 99.83% | 99.79% | 99.79% | 99.79% | 99.79% | 99.79% |        |         |
| CD3357-40C | Unify Assura" CRT-D $^{\dagger}$  | 99.89%  | 99.62%  | 98.64% | 96.94% | 95.45% | 94.62% | 94.07% | 93.88% | 93.88% | 93.88%  |
| CD3265-40Q | Quadra Assura" CRT-D $^{\dagger}$ | 99.85%  | 99.83%  | 99.63% | 98.88% | 97.12% | 96.09% | 95.60% | 95.35% | 95.26% | 95.20%  |
| CD3265-40  | Quadra Assura ̈CRT-D <sup>†</sup> | 99.94%  | 99.82%  | 99.69% | 98.79% | 97.62% | 96.65% | 96.27% | 96.27% | 96.11% | 96.11%  |
| CD3257-40Q | Unify Assura" CRT-D $^{\dagger}$  | 100.00% | 100.00% | 99.90% | 98.33% | 97.54% | 96.82% | 96.38% | 96.38% | 96.38% | 96.38%  |
| CD3257-40  | Unify Assura" CRT-D $^{\dagger}$  | 99.90%  | 99.78%  | 99.41% | 98.50% | 97.63% | 96.84% | 96.69% | 96.61% | 96.51% | 96.51%  |
| CD3249-40Q | Unify Quadra" CRT-D $^{\dagger}$  | 99.96%  | 99.96%  | 99.86% | 99.29% | 98.55% | 97.62% | 97.17% | 96.78% | 96.78% | 96.78%  |
| CD3249-40  | Unify Quadra" CRT-D $^{\dagger}$  | 99.93%  | 99.93%  | 99.93% | 99.70% | 99.56% | 99.25% | 99.08% | 99.08% | 99.08% | 99.08%  |
| CD3231-40Q | Unify" CRT-D $^{\dagger}$         | 99.88%  | 99.81%  | 99.62% | 99.11% | 98.21% | 96.97% | 95.78% | 95.10% | 95.10% | 95.10%  |
| CD3231-40  | Unify" CRT-D $^{\dagger}$         | 99.87%  | 99.79%  | 99.48% | 99.06% | 98.39% | 97.40% | 96.80% | 96.52% | 96.52% | 96.52%  |
| CD3211-36Q | Promote" + CRT-D                  | 99.78%  | 99.34%  | 98.94% | 98.56% | 98.40% | 97.68% | 96.95% | 96.78% | 96.78% | 96.78%  |
| CD3211-36  | Promote" + CRT-D                  | 99.79%  | 99.73%  | 99.38% | 98.86% | 98.67% | 97.52% | 97.04% | 96.90% | 96.90% | 96.90%  |

*†Premature battery depletion advisory population.* 

US Malfunction Summary

#### WITH COMPROMISED THERAPY

|            |  | REGISTERED  | PERCENT<br>RETURNED<br>FOR | ELECT<br>COMP | RICAL  | ELECT |        | BAT | TERY   |     | OLTAGE |     | WARE/<br>WARE | MECHA | NICAL  | BAT | LE EARLY<br>TERY<br>ETION | оті | HER    | тот | TAL    |
|------------|--|-------------|----------------------------|---------------|--------|-------|--------|-----|--------|-----|--------|-----|---------------|-------|--------|-----|---------------------------|-----|--------|-----|--------|
| MODELS     | FAMILY   | US IMPLANTS | ANALYSIS                   | QTY           | RATE   | QTY   | RATE   | QTY | RATE   | QTY | RATE   | QTY | RATE          | QTY   | RATE   | QTY | RATE                      | QTY | RATE   | QTY | RATE   |
| CDHFA500Q  | Gallant" HF CRT-D  | 35,389      | 1.30%                      | 0             | 0.00%  | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 0     | 0.00%  | 0   | 0.00%                     | 2   | <0.01% | 2   | <0.01% |
| CD3369-40Q | Quadra Assura MP <sup>-</sup> CRT-D                        | 77,783      | 3.70%                      | 7             | <0.01% | 10    | 0.01%  | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 1     | <0.01% | 0   | 0.00%                     | 4   | <0.01% | 22  | 0.03%  |
| CD3369-40C | Quadra Assura MP <sup>-</sup> CRT-D                        | 11,593      | 4.60%                      | 2             | 0.02%  | 2     | 0.02%  | 0   | 0.00%  | 1   | <0.01% | 0   | 0.00%         | 0     | 0.00%  | 0   | 0.00%                     | 1   | <0.01% | 6   | 0.05%  |
| CD3365-40Q | Quadra Assura <sup>-</sup> CRT-D                           | 16,837      | 6.40%                      | 2             | 0.01%  | 3     | 0.02%  | 1   | <0.01% | 0   | 0.00%  | 1   | <0.01%        | 0     | 0.00%  | 1   | <0.01%                    | 2   | 0.01%  | 10  | 0.06%  |
| CD3365-40Q | Quadra Assura $  \mathrm{CRT}\text{-}\mathrm{D}^{\dagger}$ | 24,249      | 18.30%                     | 6             | 0.02%  | 10    | 0.04%  | 3   | 0.01%  | 1   | <0.01% | 1   | <0.01%        | 0     | 0.00%  | 43  | 0.18%                     | 6   | 0.02%  | 70  | 0.29%  |
| CD3365-40C | Quadra Assura <sup>-</sup> CRT-D                           | 2,705       | 8.00%                      | 0             | 0.00%  | 0     | 0.00%  | 0   | 0.00%  | 2   | 0.07%  | 0   | 0.00%         | 0     | 0.00%  | 0   | 0.00%                     | 1   | 0.04%  | 3   | 0.11%  |
| CD3365-40C | Quadra Assura <sup>-</sup> CRT-D <sup>†</sup>              | 5,626       | 21.90%                     | 6             | 0.11%  | 2     | 0.04%  | 1   | 0.02%  | 0   | 0.00%  | 0   | 0.00%         | 0     | 0.00%  | 8   | 0.14%                     | 3   | 0.05%  | 20  | 0.36%  |
| CD3357-40Q | Unify Assura <sup>®</sup> CRT-D                            | 22,480      | 5.80%                      | 0             | 0.00%  | 0     | 0.00%  | 0   | 0.00%  | 1   | <0.01% | 0   | 0.00%         | 0     | 0.00%  | 0   | 0.00%                     | 1   | <0.01% | 2   | <0.01% |
| CD3357-40Q | Unify Assura $CRT-D^{\dagger}$                             | 5,458       | 22.60%                     | 1             | 0.02%  | 2     | 0.04%  | 0   | 0.00%  | 2   | 0.04%  | 0   | 0.00%         | 0     | 0.00%  | 11  | 0.20%                     | 0   | 0.00%  | 16  | 0.29%  |
| CD3357-40C | Unify Assura" CRT-D  | 19,739      | 6.90%                      | 0             | 0.00%  | 2     | 0.01%  | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 0     | 0.00%  | 0   | 0.00%                     | 0   | 0.00%  | 2   | 0.01%  |
| CD3357-40C | Unify Assura" CRT-D $^{\dagger}$                           | 9,711       | 22.50%                     | 2             | 0.02%  | 2     | 0.02%  | 0   | 0.00%  | 1   | 0.01%  | 0   | 0.00%         | 0     | 0.00%  | 19  | 0.20%                     | 1   | 0.01%  | 25  | 0.26%  |
| CD3265-40Q | Quadra Assura $$ CRT-D $^{\dagger}$                        | 13,959      | 17.90%                     | 2             | 0.01%  | 2     | 0.01%  | 1   | <0.01% | 0   | 0.00%  | 1   | <0.01%        | 0     | 0.00%  | 24  | 0.17%                     | 1   | <0.01% | 31  | 0.22%  |
| CD3265-40  | Quadra Assura⁻CRT-D <sup>†</sup>                           | 4,026       | 19.80%                     | 0             | 0.00%  | 1     | 0.02%  | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 0     | 0.00%  | 6   | 0.15%                     | 7   | 0.17%  | 14  | 0.35%  |
| CD3257-40Q | Unify Assura <sup>–</sup> CRT-D <sup>†</sup>               | 2,716       | 21.80%                     | 0             | 0.00%  | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%  | 1   | 0.04%         | 0     | 0.00%  | 5   | 0.18%                     | 2   | 0.07%  | 8   | 0.29%  |
| CD3257-40  | Unify Assura" CRT-D $^{\dagger}$                           | 6,744       | 20.90%                     | 6             | 0.09%  | 1     | 0.01%  | 1   | 0.01%  | 0   | 0.00%  | 0   | 0.00%         | 0     | 0.00%  | 10  | 0.15%                     | 1   | 0.01%  | 19  | 0.28%  |
| CD3249-40Q | Unify Quadra $$ CRT-D $^{\dagger}$                         | 9,940       | 18.00%                     | 4             | 0.04%  | 0     | 0.00%  | 1   | 0.01%  | 0   | 0.00%  | 0   | 0.00%         | 0     | 0.00%  | 17  | 0.17%                     | 4   | 0.04%  | 26  | 0.26%  |
| CD3249-40  | Unify Quadra <sup>-</sup> CRT-D <sup>†</sup>               | 2,767       | 19.90%                     | 0             | 0.00%  | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 0     | 0.00%  | 0   | 0.00%                     | 1   | 0.04%  | 1   | 0.04%  |
| CD3231-40Q | Unify" CRT-D <sup>+</sup>                                  | 20,709      | 20.20%                     | 2             | <0.01% | 1     | <0.01% | 15  | 0.07%  | 17  | 0.08%  | 0   | 0.00%         | 1     | <0.01% | 68  | 0.33%                     | 10  | 0.05%  | 114 | 0.55%  |
| CD3231-40  | Unify" CRT-D $^{\dagger}$                                  | 21,185      | 21.30%                     | 11            | 0.05%  | 4     | 0.02%  | 10  | 0.05%  | 7   | 0.03%  | 0   | 0.00%         | 1     | <0.01% | 33  | 0.16%                     | 11  | 0.05%  | 77  | 0.36%  |
| CD3211-36Q | Promote" + CRT-D   | 7,755       | 28.70%                     | 5             | 0.06%  | 0     | 0.00%  | 10  | 0.13%  | 1   | 0.01%  | 0   | 0.00%         | 1     | 0.01%  | 4   | 0.05%                     | 5   | 0.06%  | 26  | 0.34%  |
| CD3211-36  | Promote" + CRT-D   | 8,865       | 28.30%                     | 3             | 0.03%  | 0     | 0.00%  | 11  | 0.12%  | 2   | 0.02%  | 1   | 0.01%         | 0     | 0.00%  | 5   | 0.06%                     | 5   | 0.06%  | 27  | 0.30%  |
|            |  |             |                            |               |        |       |        |     |        |     |        |     |               |       |        |     |                           |     |        |     |        |

Definitions of malfunction categories can be found on pages 5-6. †Premature battery depletion advisory population.

US Malfunction Summary

#### WITHOUT COMPROMISED THERAPY

|            |   | REGISTERED  | RETURNED<br>FOR | ELECT |       | ELECT |        | BAT | TERY   |     | OLTAGE<br>CITOR | SOFT |        | MECHA | ANICAL | BAT | LE EARLY<br>TERY<br>ETION | от  | HER    | тот | ſAL   |
|------------|---|-------------|-----------------|-------|-------|-------|--------|-----|--------|-----|-----------------|------|--------|-------|--------|-----|---------------------------|-----|--------|-----|-------|
| MODELS     | FAMILY  | US IMPLANTS | ANALYSIS        | QTY   | RATE  | QTY   | RATE   | QTY | RATE   | QTY | RATE            | QTY  | RATE   | QTY   | RATE   | QTY | RATE                      | QTY | RATE   | QTY | RATE  |
| CDHFA500Q  | Gallant <sup>®</sup> HF CRT-D                 | 35,389      | 1.30%           | 6     | 0.02% | 0     | 0.00%  | 0   | 0.00%  | 2   | <0.01%          | 0    | 0.00%  | 2     | <0.01% | 0   | 0.00%                     | 1   | <0.01% | 11  | 0.03% |
| CD3369-40Q | Quadra Assura MP <sup>-</sup> CRT-D           | 77,783      | 3.70%           | 21    | 0.03% | 1     | <0.01% | 3   | <0.01% | 2   | <0.01%          | 0    | 0.00%  | 5     | <0.01% | 2   | <0.01%                    | 19  | 0.02%  | 53  | 0.07% |
| CD3369-40C | Quadra Assura MP <sup>-</sup> CRT-D           | 11,593      | 4.60%           | 3     | 0.03% | 0     | 0.00%  | 0   | 0.00%  | 1   | <0.01%          | 0    | 0.00%  | 2     | 0.02%  | 2   | 0.02%                     | 3   | 0.03%  | 11  | 0.09% |
| CD3365-40Q | Quadra Assura <sup>–</sup> CRT-D              | 16,837      | 6.40%           | 7     | 0.04% | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%           | 0    | 0.00%  | 4     | 0.02%  | 3   | 0.02%                     | 6   | 0.04%  | 20  | 0.12% |
| CD3365-40Q | Quadra Assura <sup>¯</sup> CRT-D <sup>†</sup> | 24,249      | 18.30%          | 17    | 0.07% | 1     | <0.01% | 18  | 0.07%  | 0   | 0.00%           | 3    | 0.01%  | 2     | <0.01% | 422 | 1.74%                     | 7   | 0.03%  | 470 | 1.94% |
| CD3365-40C | Quadra Assura <sup>–</sup> CRT-D              | 2,705       | 8.00%           | 1     | 0.04% | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%           | 0    | 0.00%  | 0     | 0.00%  | 0   | 0.00%                     | 0   | 0.00%  | 1   | 0.04% |
| CD3365-40C | Quadra Assura <sup>-</sup> CRT-D <sup>†</sup> | 5,626       | 21.90%          | 2     | 0.04% | 0     | 0.00%  | 1   | 0.02%  | 0   | 0.00%           | 1    | 0.02%  | 0     | 0.00%  | 59  | 1.05%                     | 2   | 0.04%  | 65  | 1.16% |
| CD3357-40Q | Unify Assura <sup>®</sup> CRT-D               | 22,480      | 5.80%           | 6     | 0.03% | 0     | 0.00%  | 1   | <0.01% | 0   | 0.00%           | 0    | 0.00%  | 1     | <0.01% | 2   | <0.01%                    | 5   | 0.02%  | 15  | 0.07% |
| CD3357-40Q | Unify Assura <sup>¯</sup> CRT-D <sup>†</sup>  | 5,458       | 22.60%          | 2     | 0.04% | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%           | 0    | 0.00%  | 0     | 0.00%  | 75  | 1.37%                     | 3   | 0.05%  | 80  | 1.47% |
| CD3357-40C | Unify Assura <sup>–</sup> CRT-D               | 19,739      | 6.90%           | 2     | 0.01% | 1     | <0.01% | 2   | 0.01%  | 0   | 0.00%           | 0    | 0.00%  | 1     | <0.01% | 1   | <0.01%                    | 5   | 0.03%  | 12  | 0.06% |
| CD3357-40C | Unify Assura <sup>–</sup> CRT-D <sup>†</sup>  | 9,711       | 22.50%          | 3     | 0.03% | 1     | 0.01%  | 6   | 0.06%  | 0   | 0.00%           | 2    | 0.02%  | 1     | 0.01%  | 109 | 1.12%                     | 3   | 0.03%  | 125 | 1.29% |
| CD3265-40Q | Quadra Assura <sup>¯</sup> CRT-D <sup>†</sup> | 13,959      | 17.90%          | 6     | 0.04% | 0     | 0.00%  | 7   | 0.05%  | 0   | 0.00%           | 2    | 0.01%  | 3     | 0.02%  | 109 | 0.78%                     | 1   | <0.01% | 128 | 0.92% |
| CD3265-40  | Quadra Assura⁻CRT-D <sup>†</sup>              | 4,026       | 19.80%          | 0     | 0.00% | 0     | 0.00%  | 2   | 0.05%  | 0   | 0.00%           | 1    | 0.02%  | 0     | 0.00%  | 19  | 0.47%                     | 2   | 0.05%  | 24  | 0.60% |
| CD3257-40Q | Unify Assura <sup>–</sup> CRT-D <sup>†</sup>  | 2,716       | 21.80%          | 0     | 0.00% | 0     | 0.00%  | 2   | 0.07%  | 0   | 0.00%           | 0    | 0.00%  | 1     | 0.04%  | 12  | 0.44%                     | 0   | 0.00%  | 15  | 0.55% |
| CD3257-40  | Unify Assura <sup>¬</sup> CRT-D <sup>†</sup>  | 6,744       | 20.90%          | 3     | 0.04% | 0     | 0.00%  | 1   | 0.01%  | 0   | 0.00%           | 4    | 0.06%  | 0     | 0.00%  | 30  | 0.44%                     | 2   | 0.03%  | 40  | 0.59% |
| CD3249-40Q | Unify Quadra <sup>¯</sup> CRT-D <sup>†</sup>  | 9,940       | 18.00%          | 3     | 0.03% | 0     | 0.00%  | 1   | 0.01%  | 0   | 0.00%           | 0    | 0.00%  | 1     | 0.01%  | 40  | 0.40%                     | 1   | 0.01%  | 46  | 0.46% |
| CD3249-40  | Unify Quadra <sup>-</sup> CRT-D <sup>+</sup>  | 2,767       | 19.90%          | 0     | 0.00% | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%           | 0    | 0.00%  | 1     | 0.04%  | 5   | 0.18%                     | 0   | 0.00%  | 6   | 0.22% |
| CD3231-40Q | Unify" CRT-D <sup>†</sup>                     | 20,709      | 20.20%          | 6     | 0.03% | 0     | 0.00%  | 10  | 0.05%  | 6   | 0.03%           | 2    | <0.01% | 3     | 0.01%  | 62  | 0.30%                     | 7   | 0.03%  | 96  | 0.46% |
| CD3231-40  | Unify" CRT-D <sup>†</sup>                     | 21,185      | 21.30%          | 5     | 0.02% | 0     | 0.00%  | 5   | 0.02%  | 0   | 0.00%           | 3    | 0.01%  | 1     | <0.01% | 50  | 0.24%                     | 12  | 0.06%  | 76  | 0.36% |
| CD3211-36Q | Promote" + CRT-D                              | 7,755       | 28.70%          | 4     | 0.05% | 0     | 0.00%  | 6   | 0.08%  | 0   | 0.00%           | 11   | 0.14%  | 1     | 0.01%  | 0   | 0.00%                     | 6   | 0.08%  | 28  | 0.36% |
| CD3211-36  | Promote" + CRT-D                              | 8,865       | 28.30%          | 3     | 0.03% | 0     | 0.00%  | 3   | 0.03%  | 0   | 0.00%           | 14   | 0.16%  | 1     | 0.01%  | 1   | 0.01%                     | 3   | 0.03%  | 25  | 0.28% |

Definitions of malfunction categories can be found on pages 5-6. †Premature battery depletion advisory population.

Worldwide Malfunction Summary

#### WITH COMPROMISED THERAPY

|            |                                     | WORLDWIDE | PERCENT<br>RETURNED<br>FOR | ELECT |        |     | RICAL<br>ONNECT | BAT | TERY  |     | OLTAGE |     | WARE/<br>WARE | MECH | ANICAL  | BAT | LE EARLY<br>TERY<br>ETION | от  | HER     | то  | TAL    |
|------------|-------------------------------------|-----------|----------------------------|-------|--------|-----|-----------------|-----|-------|-----|--------|-----|---------------|------|---------|-----|---------------------------|-----|---------|-----|--------|
| MODELS     | FAMILY                              | SALES     | ANALYSIS                   | QTY   | RATE   | QTY | RATE            | QTY | RATE  | QTY | RATE   | QTY | RATE          | QTY  | RATE    | QTY | RATE                      | QTY | RATE    | QTY | RATE   |
| CDHFA500Q  | Gallant <sup>®</sup> HF CRT-D       | 53,779    | 1.12%                      | 0     | 0.00%  | 0   | 0.00%           | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 0   | 0.00%                     | 4   | < 0.01% | 4   | <0.01% |
| CD3369-40Q | Quadra Assura MP <sup>-</sup> CRT-D | 78,337    | 3.88%                      | 14    | 0.02%  | 20  | 0.03%           | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 2    | <0.01%  | 0   | 0.00%                     | 8   | 0.01%   | 44  | 0.06%  |
| CD3369-40C | Quadra Assura MP <sup>-</sup> CRT-D | 11,755    | 5.10%                      | 4     | 0.03%  | 4   | 0.03%           | 0   | 0.00% | 1   | <0.01% | 0   | 0.00%         | 0    | 0.00%   | 0   | 0.00%                     | 2   | 0.02%   | 11  | 0.09%  |
| CD3365-40Q | Quadra Assura <sup>¯</sup> CRT-D    | 41,617    | 13.58%                     | 16    | 0.04%  | 26  | 0.06%           | 8   | 0.02% | 1   | <0.01% | 4   | <0.01%        | 0    | 0.00%   | 88  | 0.21%                     | 16  | 0.04%   | 159 | 0.38%  |
| CD3365-40C | Quadra Assura <sup>¯</sup> CRT-D    | 8,382     | 18.18%                     | 12    | 0.14%  | 4   | 0.05%           | 2   | 0.02% | 2   | 0.02%  | 0   | 0.00%         | 0    | 0.00%   | 16  | 0.19%                     | 8   | 0.10%   | 44  | 0.52%  |
| CD3357-40Q | Unify Assura" CRT-D                 | 28,309    | 9.44%                      | 2     | <0.01% | 4   | 0.01%           | 0   | 0.00% | 3   | 0.01%  | 0   | 0.00%         | 0    | 0.00%   | 22  | 0.08%                     | 2   | < 0.01% | 33  | 0.12%  |
| CD3357-40C | Unify Assura" CRT-D                 | 29,738    | 12.43%                     | 4     | 0.01%  | 8   | 0.03%           | 0   | 0.00% | 1   | <0.01% | 0   | 0.00%         | 0    | 0.00%   | 38  | 0.13%                     | 2   | <0.01%  | 53  | 0.18%  |
| CD3265-40Q | Quadra Assura <sup>-</sup> CRT-D    | 13,955    | 18.25%                     | 4     | 0.03%  | 4   | 0.03%           | 2   | 0.01% | 0   | 0.00%  | 2   | 0.01%         | 0    | 0.00%   | 48  | 0.34%                     | 2   | 0.01%   | 62  | 0.44%  |
| CD3265-40  | Quadra Assura <sup>¯</sup> CRT-D    | 4,046     | 20.51%                     | 0     | 0.00%  | 2   | 0.05%           | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 12  | 0.30%                     | 14  | 0.35%   | 28  | 0.69%  |
| CD3257-40Q | Unify Assura" CRT-D                 | 2,727     | 22.66%                     | 0     | 0.00%  | 0   | 0.00%           | 0   | 0.00% | 0   | 0.00%  | 2   | 0.07%         | 0    | 0.00%   | 10  | 0.37%                     | 4   | 0.15%   | 16  | 0.59%  |
| CD3257-40  | Unify Assura" CRT-D                 | 6,723     | 21.45%                     | 12    | 0.18%  | 2   | 0.03%           | 2   | 0.03% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 20  | 0.30%                     | 2   | 0.03%   | 38  | 0.57%  |
| CD3249-40Q | Unify Quadra <sup>¯</sup> CRT-D     | 12,197    | 15.16%                     | 10    | 0.08%  | 0   | 0.00%           | 2   | 0.02% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 34  | 0.28%                     | 8   | 0.07%   | 54  | 0.44%  |
| CD3249-40  | Unify Quadra <sup>-</sup> CRT-D     | 5,418     | 11.30%                     | 6     | 0.11%  | 4   | 0.07%           | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 2   | 0.04%                     | 2   | 0.04%   | 14  | 0.26%  |
| CD3231-40Q | Unify" CRT-D                        | 20,973    | 20.49%                     | 6     | 0.03%  | 2   | <0.01%          | 30  | 0.14% | 17  | 0.08%  | 0   | 0.00%         | 2    | < 0.01% | 136 | 0.65%                     | 20  | 0.10%   | 213 | 1.02%  |
| CD3231-40  | Unify" CRT-D                        | 24,621    | 18.84%                     | 22    | 0.09%  | 8   | 0.03%           | 20  | 0.08% | 7   | 0.03%  | 0   | 0.00%         | 2    | <0.01%  | 68  | 0.28%                     | 22  | 0.09%   | 149 | 0.61%  |
| CD3211-36Q | Promote" + CRT-D                    | 16,097    | 14.91%                     | 30    | 0.19%  | 0   | 0.00%           | 28  | 0.17% | 8   | 0.05%  | 2   | 0.01%         | 4    | 0.02%   | 16  | 0.10%                     | 12  | 0.07%   | 100 | 0.62%  |
| CD3211-36  | Promote" + CRT-D                    | 21,011    | 12.84%                     | 28    | 0.13%  | 4   | 0.02%           | 30  | 0.14% | 6   | 0.03%  | 2   | <0.01%        | 0    | 0.00%   | 18  | 0.09%                     | 28  | 0.13%   | 116 | 0.55%  |

Worldwide Malfunction Summary

#### WITHOUT COMPROMISED THERAPY

|            |                                     | WORLDWIDE | PERCENT<br>RETURNED<br>FOR | ELECT |       |     | TRICAL<br>ONNECT | BAT | TERY   |     | OLTAGE |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>ETION | от  | HER     | тот | TAL   |
|------------|-------------------------------------|-----------|----------------------------|-------|-------|-----|------------------|-----|--------|-----|--------|-----|---------------|------|--------|-----|---------------------------|-----|---------|-----|-------|
| MODELS     | FAMILY                              | SALES     | ANALYSIS                   | QTY   | RATE  | QTY | RATE             | QTY | RATE   | QTY | RATE   | QTY | RATE          | QTY  | RATE   | QTY | RATE                      | QTY | RATE    | QTY | RATE  |
| CDHFA500Q  | Gallant <sup>®</sup> HF CRT-D       | 53,779    | 1.12%                      | 24    | 0.04% | 0   | 0.00%            | 0   | 0.00%  | 2   | <0.01% | 0   | 0.00%         | 6    | 0.01%  | 0   | 0.00%                     | 2   | < 0.01% | 34  | 0.06% |
| CD3369-40Q | Quadra Assura MP <sup>-</sup> CRT-D | 78,337    | 3.88%                      | 42    | 0.05% | 2   | < 0.01%          | 6   | <0.01% | 2   | <0.01% | 0   | 0.00%         | 10   | 0.01%  | 4   | <0.01%                    | 38  | 0.05%   | 104 | 0.13% |
| CD3369-40C | Quadra Assura MP <sup>-</sup> CRT-D | 11,755    | 5.10%                      | 6     | 0.05% | 0   | 0.00%            | 0   | 0.00%  | 1   | <0.01% | 0   | 0.00%         | 4    | 0.03%  | 4   | 0.03%                     | 6   | 0.05%   | 21  | 0.18% |
| CD3365-40Q | Quadra Assura <sup>¯</sup> CRT-D    | 41,617    | 13.58%                     | 48    | 0.12% | 2   | < 0.01%          | 36  | 0.09%  | 0   | 0.00%  | 6   | 0.01%         | 12   | 0.03%  | 852 | 2.05%                     | 26  | 0.06%   | 982 | 2.36% |
| CD3365-40C | Quadra Assura <sup>¯</sup> CRT-D    | 8,382     | 18.18%                     | 6     | 0.07% | 0   | 0.00%            | 2   | 0.02%  | 0   | 0.00%  | 2   | 0.02%         | 0    | 0.00%  | 118 | 1.41%                     | 4   | 0.05%   | 132 | 1.57% |
| CD3357-40Q | Unify Assura" CRT-D                 | 28,309    | 9.44%                      | 16    | 0.06% | 0   | 0.00%            | 2   | <0.01% | 0   | 0.00%  | 0   | 0.00%         | 4    | 0.01%  | 156 | 0.55%                     | 16  | 0.06%   | 194 | 0.69% |
| CD3357-40C | Unify Assura" CRT-D                 | 29,738    | 12.43%                     | 10    | 0.03% | 4   | 0.01%            | 16  | 0.05%  | 0   | 0.00%  | 4   | 0.01%         | 4    | 0.01%  | 220 | 0.74%                     | 16  | 0.05%   | 274 | 0.92% |
| CD3265-40Q | Quadra Assura <sup>-</sup> CRT-D    | 13,955    | 18.25%                     | 12    | 0.09% | 0   | 0.00%            | 14  | 0.10%  | 0   | 0.00%  | 4   | 0.03%         | 6    | 0.04%  | 218 | 1.56%                     | 2   | 0.01%   | 256 | 1.83% |
| CD3265-40  | Quadra Assura <sup>¯</sup> CRT-D    | 4,046     | 20.51%                     | 0     | 0.00% | 0   | 0.00%            | 4   | 0.10%  | 0   | 0.00%  | 2   | 0.05%         | 0    | 0.00%  | 38  | 0.94%                     | 4   | 0.10%   | 48  | 1.19% |
| CD3257-40Q | Unify Assura" CRT-D                 | 2,727     | 22.66%                     | 0     | 0.00% | 0   | 0.00%            | 4   | 0.15%  | 0   | 0.00%  | 0   | 0.00%         | 2    | 0.07%  | 24  | 0.88%                     | 0   | 0.00%   | 30  | 1.10% |
| CD3257-40  | Unify Assura" CRT-D                 | 6,723     | 21.45%                     | 6     | 0.09% | 0   | 0.00%            | 2   | 0.03%  | 0   | 0.00%  | 8   | 0.12%         | 0    | 0.00%  | 60  | 0.89%                     | 4   | 0.06%   | 80  | 1.19% |
| CD3249-40Q | Unify Quadra <sup>¯</sup> CRT-D     | 12,197    | 15.16%                     | 6     | 0.05% | 0   | 0.00%            | 2   | 0.02%  | 0   | 0.00%  | 0   | 0.00%         | 2    | 0.02%  | 86  | 0.71%                     | 8   | 0.07%   | 104 | 0.85% |
| CD3249-40  | Unify Quadra <sup>-</sup> CRT-D     | 5,418     | 11.30%                     | 4     | 0.07% | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 2    | 0.04%  | 14  | 0.26%                     | 0   | 0.00%   | 20  | 0.37% |
| CD3231-40Q | Unify" CRT-D                        | 20,973    | 20.49%                     | 12    | 0.06% | 0   | 0.00%            | 20  | 0.10%  | 6   | 0.03%  | 4   | 0.02%         | 6    | 0.03%  | 124 | 0.59%                     | 14  | 0.07%   | 186 | 0.89% |
| CD3231-40  | Unify" CRT-D                        | 24,621    | 18.84%                     | 14    | 0.06% | 0   | 0.00%            | 10  | 0.04%  | 0   | 0.00%  | 6   | 0.02%         | 2    | <0.01% | 106 | 0.43%                     | 28  | 0.11%   | 166 | 0.67% |
| CD3211-36Q | Promote" + CRT-D                    | 16,097    | 14.91%                     | 12    | 0.07% | 0   | 0.00%            | 14  | 0.09%  | 0   | 0.00%  | 32  | 0.20%         | 6    | 0.04%  | 8   | 0.05%                     | 18  | 0.11%   | 90  | 0.56% |
| CD3211-36  | Promote" + CRT-D                    | 21,011    | 12.84%                     | 16    | 0.08% | 0   | 0.00%            | 8   | 0.04%  | 0   | 0.00%  | 38  | 0.18%         | 4    | 0.02%  | 4   | 0.02%                     | 18  | 0.09%   | 88  | 0.42% |

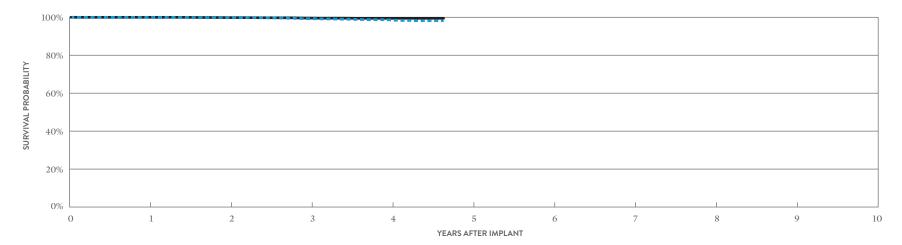
## Allure Quadra MP<sup>™</sup> CRT-P MODEL PM3562

| US Regulatory Approval                      | January 2019 |
|---|--------------|
| Registered US Implants                      | 34,990       |
| Estimated Active US Implants                | 27,047       |
| Estimated Longevity                         | 8 Years      |
| Normal Battery Depletion                    | 31           |
| Number of US Advisories (see pgs. 215, 218) | Two          |
|   |              |

|                                  |     | PROMISED<br>RAPY | W/O COMP<br>THER |       |
|----------------------------------|-----|------------------|------------------|-------|
|                                  | QTY | RATE             | QTY              | RATE  |
| Electrical Component             | 0   | 0.00%            | 0                | 0.00% |
| Electrical Interconnect          | 0   | 0.00%            | 0                | 0.00% |
| Battery                          | 0   | 0.00%            | 0                | 0.00% |
| Software/Firmware                | 0   | 0.00%            | 0                | 0.00% |
| Mechanical                       | 0   | 0.00%            | 30               | 0.09% |
| Possible Early Battery Depletion | 0   | 0.00%            | 0                | 0.00% |
| Other                            | 0   | 0.00%            | 0                | 0.00% |
| Total                            | 0   | 0.00%            | 30               | 0.09% |
|                                  |     |                  |                  |       |

MALFUNCTIONS

MALFUNCTIONS



#### INCLUDING NORMAL BATTERY DEPLETION

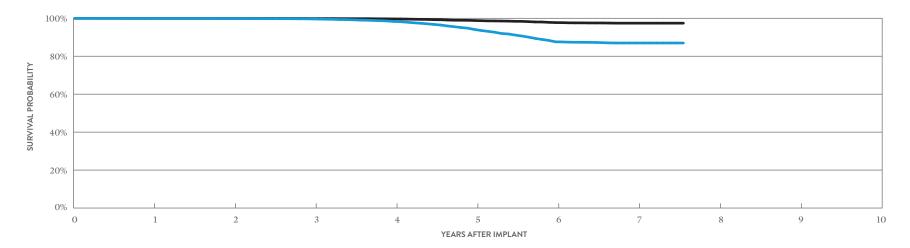
| YEAR                 | 1      | 2      | 3      | 4      | AT 56 MONTHS |
|----------------------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.98% | 99.82% | 99.27% | 98.65% | 98.19%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.03%  | 0.07%  | 0.12%  | 0.19%        |
| SAMPLE SIZE          | 29,430 | 19,820 | 12,380 | 6,110  | 360          |

| YEAR                 | 1      | 2      | 3      | 4      | AT 56 MONTHS |
|----------------------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.98% | 99.82% | 99.59% | 99.47% | 99.47%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.03%  | 0.05%  | 0.07%  | 0.07%        |

## Allure Quadra MP<sup>™</sup> CRT-P MODEL PM3262

| US Regulatory Approval                      | February 2016 |
|---|---------------|
| Registered US Implants                      | 19,960        |
| Estimated Active US Implants                | 10,372        |
| Estimated Longevity                         | 8 Years       |
| Normal Battery Depletion                    | 458           |
| Number of US Advisories (see pgs. 215, 218) | Two           |
|   |               |

|                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | MALFUN<br>W/O COMP<br>THER | ROMISED |
|----------------------------------|---------|-----------------------------|----------------------------|---------|
|                                  | QTY     | RATE                        | QTY                        | RATE    |
| Electrical Component             | 0       | 0.00%                       | 1                          | < 0.01% |
| Electrical Interconnect          | 0       | 0.00%                       | 0                          | 0.00%   |
| Battery                          | 0       | 0.00%                       | 0                          | 0.00%   |
| Software/Firmware                | 0       | 0.00%                       | 4                          | 0.02%   |
| Mechanical                       | 4       | 0.02%                       | 98                         | 0.49%   |
| Possible Early Battery Depletion | 0       | 0.00%                       | 0                          | 0.00%   |
| Other                            | 0       | 0.00%                       | 1                          | < 0.01% |
| Total                            | 4       | 0.02%                       | 104                        | 0.52%   |



#### INCLUDING NORMAL BATTERY DEPLETION

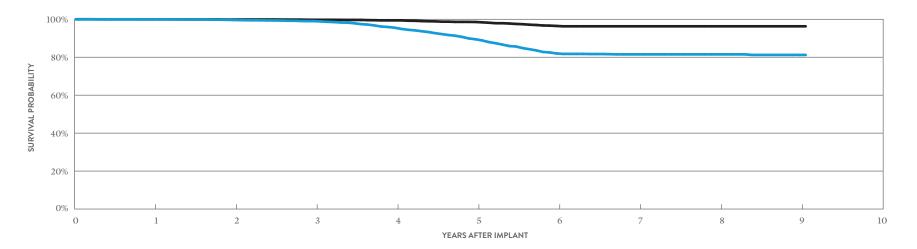
| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | AT 91 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.93% | 99.85% | 99.65% | 98.32% | 94.10% | 87.61% | 86.97% | 86.97%       |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.04%  | 0.10%  | 0.19%  | 0.31%  | 0.34%  | 0.34%        |
| SAMPLE SIZE          | 19,040 | 17,410 | 16,080 | 14,700 | 12,290 | 8,340  | 3,990  | 360          |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | AT 91 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.94% | 99.90% | 99.85% | 99.65% | 98.82% | 97.73% | 97.42% | 97.42%       |
| ±1 STANDARD ERROR    | 0.02%  | 0.02%  | 0.02%  | 0.04%  | 0.09%  | 0.14%  | 0.17%  | 0.17%        |

## Allure<sup>™</sup> RF CRT-P MODEL PM3222

| US Regulatory Approval                      | March 2014 |
|---|------------|
| Registered US Implants                      | 13,493     |
| Estimated Active US Implants                | 7,201      |
| Estimated Longevity                         | 8 Years    |
| Normal Battery Depletion                    | 308        |
| Number of US Advisories (see pgs. 215, 218) | Two        |
|   |            |

|                                  | W/ COM | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |     |  |
|----------------------------------|--------|-----------------------------|--|-----|--|
|                                  | QTY    | RATE                        | QTY R                                      | ATE |  |
| Electrical Component             | 1      | <0.01%                      | 0 0.                                       | 00% |  |
| Electrical Interconnect          | 0      | 0.00%                       | 0 0.                                       | 00% |  |
| Battery                          | 0      | 0.00%                       | 0 0.                                       | 00% |  |
| Software/Firmware                | 0      | 0.00%                       | 0 0.                                       | 00% |  |
| Mechanical                       | 0      | 0.00%                       | 65 0.                                      | 48% |  |
| Possible Early Battery Depletion | 0      | 0.00%                       | 0 0.                                       | 00% |  |
| Other                            | 0      | 0.00%                       | 0 0.                                       | 00% |  |
| Total                            | 1      | <0.01%                      | 65 0.                                      | 48% |  |



#### INCLUDING NORMAL BATTERY DEPLETION -

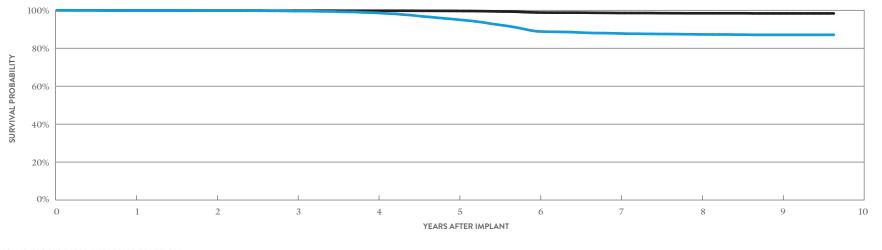
| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 109 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.97% | 99.65% | 99.02% | 95.56% | 89.46% | 81.99% | 81.51% | 81.51% | 81.22% | 81.22%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.06%  | 0.11%  | 0.24%  | 0.40%  | 0.55%  | 0.57%  | 0.57%  | 0.61%  | 0.61%         |
| SAMPLE SIZE          | 12,050 | 9,710  | 8,000  | 6,410  | 4,840  | 3,380  | 2,190  | 1,250  | 530    | 230           |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 109 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.97% | 99.87% | 99.72% | 99.42% | 98.58% | 96.49% | 96.30% | 96.30% | 96.30% | 96.30%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.04%  | 0.05%  | 0.09%  | 0.15%  | 0.28%  | 0.30%  | 0.30%  | 0.30%  | 0.30%         |

## Allure Quadra<sup>™</sup> RF CRT-P MODEL PM3242

| US Regulatory App  | roval                      | March 2014 |
|--------------------|----------------------------|------------|
| Registered US Impl | ants                       | 18.479     |
| Estimated Active U | S Implants                 | 6,881      |
| Estimated Longevit | у                          | 8 Years    |
| Normal Battery Dep | oletion                    | 519        |
| Number of US Advis | sories (see pgs. 215, 218) | Two        |
|                    |                            |            |

|                                  | W/ COM | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |  |
|----------------------------------|--------|-----------------------------|--|-------|--|
|                                  | QTY    | RATE                        | QTY  | RATE  |  |
| Electrical Component             | 1      | < 0.01%                     | 2  | 0.01% |  |
| Electrical Interconnect          | 0      | 0.00%                       | 0  | 0.00% |  |
| Battery                          | 0      | 0.00%                       | 0  | 0.00% |  |
| Software/Firmware                | 0      | 0.00%                       | 0  | 0.00% |  |
| Mechanical                       | 2      | 0.01%                       | 67   | 0.36% |  |
| Possible Early Battery Depletion | 0      | 0.00%                       | 0  | 0.00% |  |
| Other                            | 0      | 0.00%                       | 0  | 0.00% |  |
| Total                            | 3      | 0.02%                       | 69   | 0.37% |  |



| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 116 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.90% | 99.82% | 99.56% | 98.67% | 95.14% | 88.88% | 87.79% | 87.27% | 87.07% | 87.07%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.05%  | 0.09%  | 0.19%  | 0.28%  | 0.30%  | 0.31%  | 0.32%  | 0.32%         |
| SAMPLE SIZE          | 17,330 | 15,470 | 14,160 | 13,000 | 11,790 | 10,440 | 8,890  | 6,550  | 3,290  | 230           |

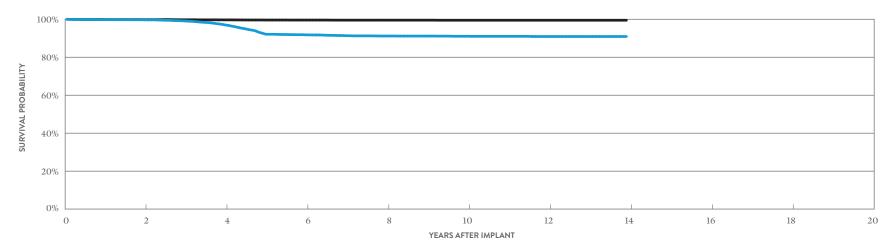
| EXCLUDING NORMAL E | BATTERY DEPLETION 🗕 |
|--------------------|---------------------|
|--------------------|---------------------|

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 116 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.92% | 99.86% | 99.80% | 99.76% | 99.66% | 98.83% | 98.55% | 98.42% | 98.35% | 98.35%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.04%  | 0.04%  | 0.05%  | 0.10%  | 0.11%  | 0.12%  | 0.13%  | 0.13%         |

## Anthem<sup>™</sup> RF CRT-P MODEL PM3210

| US Regulatory Approval                           | July 2009 |
|--|-----------|
| Registered US Implants                           | 20,647    |
| Estimated Active US Implants                     | 4,676     |
| Estimated Longevity                              | 8 Years   |
| Normal Battery Depletion                         | 405       |
| Number of US Advisories (see pgs. 215, 218, 220) | Three     |

|                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | W/O COM | FUNCTIONS<br>OMPROMISED<br>HERAPY |  |  |
|----------------------------------|---------|-----------------------------|---------|-----------------------------------|--|--|
|                                  | QTY     | RATE                        | QTY     | RATE                              |  |  |
| Electrical Component             | 3       | 0.01%                       | 3       | 0.01%                             |  |  |
| Electrical Interconnect          | 3       | 0.01%                       | 1       | < 0.01%                           |  |  |
| Battery                          | 0       | 0.00%                       | 1       | <0.01%                            |  |  |
| Software/Firmware                | 0       | 0.00%                       | 7       | 0.03%                             |  |  |
| Mechanical                       | 0       | 0.00%                       | 0       | 0.00%                             |  |  |
| Possible Early Battery Depletion | 1       | < 0.01%                     | 3       | 0.01%                             |  |  |
| Other                            | 0       | 0.00%                       | 9       | 0.04%                             |  |  |
| Total                            | 7       | 0.03%                       | 24      | 0.12%                             |  |  |



## INCLUDING NORMAL BATTERY DEPLETION

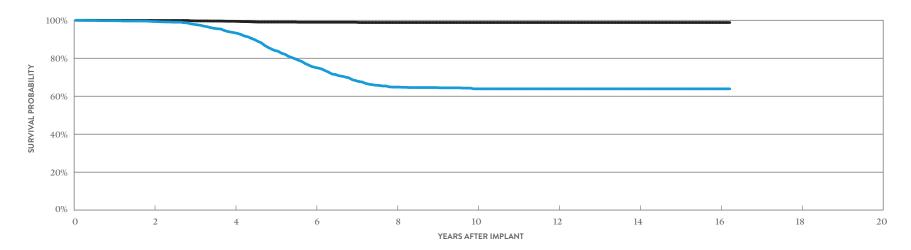
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 167 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.72% | 97.02% | 91.79% | 91.18% | 91.05% | 90.92% | 90.92%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.14%  | 0.25%  | 0.26%  | 0.26%  | 0.27%  | 0.27%         |
| SAMPLE SIZE          | 16,230 | 12,710 | 9,760  | 7,200  | 5,060  | 2,220  | 210           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 167 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.83% | 99.68% | 99.57% | 99.52% | 99.48% | 99.48% | 99.48%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.04%  | 0.06%  | 0.06%  | 0.07%  | 0.07%  | 0.07%         |

# Frontier<sup>™</sup> II CRT-P MODEL 5586

| US Regulatory Approval       | August 2004 |
|------------------------------|-------------|
| Registered US Implants       | 6,911       |
| Estimated Active US Implants | 690         |
| Estimated Longevity          | 6.5 Years   |
| Normal Battery Depletion     | 381         |
| Number of US Advisories      | None        |
|                              |             |

|                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | W/O COMP | UNCTIONS<br>MPROMISED<br>HERAPY |  |  |
|----------------------------------|---------|-----------------------------|----------|---------------------------------|--|--|
|                                  | QTY     | RATE                        | QTY      | RATE                            |  |  |
| Electrical Component             | 0       | 0.00%                       | 7        | 0.10%                           |  |  |
| Electrical Interconnect          | 0       | 0.00%                       | 0        | 0.00%                           |  |  |
| Battery                          | 0       | 0.00%                       | 0        | 0.00%                           |  |  |
| Software/Firmware                | 0       | 0.00%                       | 0        | 0.00%                           |  |  |
| Mechanical                       | 0       | 0.00%                       | 0        | 0.00%                           |  |  |
| Possible Early Battery Depletion | 0       | 0.00%                       | 7        | 0.10%                           |  |  |
| Other                            | 1       | 0.01%                       | 3        | 0.04%                           |  |  |
| Total                            | 1       | 0.01%                       | 17       | 0.25%                           |  |  |



#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 195 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.36% | 93.45% | 75.14% | 64.81% | 63.89% | 63.89% | 63.89% | 63.89% | 63.89%        |
| ± 1 STANDARD ERROR   | 0.10%  | 0.40%  | 0.79%  | 0.95%  | 0.97%  | 0.97%  | 0.97%  | 0.97%  | 0.97%         |
| SAMPLE SIZE          | 4,960  | 3,380  | 2,100  | 1,230  | 880    | 770    | 700    | 330    | 210           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 195 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.89% | 99.47% | 98.95% | 98.81% | 98.81% | 98.81% | 98.81% | 98.81% | 98.81%        |
| ±1 STANDARD ERROR    | 0.03%  | 0.12%  | 0.18%  | 0.21%  | 0.21%  | 0.21%  | 0.21%  | 0.21%  | 0.21%         |

SUMMARY INFORMATION Cardiac Resynchronization Therapy (CRT) Pacemakers

Survival Probability Summary

#### INCLUDING NORMAL BATTERY DEPLETION

| MODELS | FAMILY                  | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|--------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| PM3562 | Allure Quadra MP" CRT-P | 99.98% | 99.82% | 99.27% | 98.65% |        |        |        |        |        |         |
| PM3262 | Allure Quadra MP" CRT-P | 99.93% | 99.85% | 99.65% | 98.32% | 94.10% | 87.61% | 86.97% |        |        |         |
| PM3222 | Allure" RF CRT-P        | 99.97% | 99.65% | 99.02% | 95.56% | 89.46% | 81.99% | 81.51% | 81.51% | 81.22% |         |
| PM3242 | Allure Quadra" RF CRT-P | 99.90% | 99.82% | 99.56% | 98.67% | 95.14% | 88.88% | 87.79% | 87.27% | 87.07% |         |
| PM3210 | Anthem" RF CRT-P        | 99.81% | 99.72% | 99.11% | 97.02% | 92.13% | 91.79% | 91.34% | 91.18% | 91.15% | 91.05%  |
| 5586   | Frontier" II CRT-P      | 99.75% | 99.36% | 97.89% | 93.45% | 84.09% | 75.14% | 68.22% | 64.81% | 64.56% | 63.89%  |

| MODELS | FAMILY                  | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|--------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| PM3562 | Allure Quadra MP" CRT-P | 99.98% | 99.82% | 99.59% | 99.47% |        |        |        |        |        |         |
| PM3262 | Allure Quadra MP" CRT-P | 99.94% | 99.90% | 99.85% | 99.65% | 98.82% | 97.73% | 97.42% |        |        |         |
| PM3222 | Allure" RF CRT-P        | 99.97% | 99.87% | 99.72% | 99.42% | 98.58% | 96.49% | 96.30% | 96.30% | 96.30% |         |
| PM3242 | Allure Quadra" RF CRT-P | 99.92% | 99.86% | 99.80% | 99.76% | 99.66% | 98.83% | 98.55% | 98.42% | 98.35% |         |
| PM3210 | Anthem" RF CRT-P        | 99.87% | 99.83% | 99.75% | 99.68% | 99.59% | 99.57% | 99.52% | 99.52% | 99.52% | 99.48%  |
| 5586   | Frontier" II CRT-P      | 99.93% | 99.89% | 99.70% | 99.47% | 99.05% | 98.95% | 98.95% | 98.81% | 98.81% | 98.81%  |

US Malfunction Summary

#### WITH COMPROMISED THERAPY

|        |                                     | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | ELECTRICAL ELECTRICAL<br>COMPONENT INTERCONNECT |     | BAT   | SOFTWARE/<br>BATTERY FIRMWARE MECHANICAL |       |     |       |     |       | POSSIBLE EARLY<br>BATTERY<br>DEPLETION OTHER |         |     | TOTAL |     |        |
|--------|-------------------------------------|-------------|----------------------------|-----|---|-----|-------|--|-------|-----|-------|-----|-------|--|---------|-----|-------|-----|--------|
| MODELS | FAMILY                              | US IMPLANTS | ANALYSIS                   | QTY | RATE  | QTY | RATE  | QTY                                      | RATE  | QTY | RATE  | QTY | RATE  | QTY  | RATE    | QTY | RATE  | QTY | RATE   |
| PM3562 | Allure Quadra MP <sup>-</sup> CRT-P | 34,990      | 2.30%                      | 0   | 0.00%   | 0   | 0.00% | 0  | 0.00% | 0   | 0.00% | 0   | 0.00% | 0  | 0.00%   | 0   | 0.00% | 0   | 0.00%  |
| PM3262 | Allure Quadra MP <sup>-</sup> CRT-P | 19,960      | 8.40%                      | 0   | 0.00%   | 0   | 0.00% | 0  | 0.00% | 0   | 0.00% | 4   | 0.02% | 0  | 0.00%   | 0   | 0.00% | 4   | 0.02%  |
| PM3222 | Allure" RF CRT-P                    | 13,493      | 8.00%                      | 1   | <0.01%  | 0   | 0.00% | 0  | 0.00% | 0   | 0.00% | 0   | 0.00% | 0  | 0.00%   | 0   | 0.00% | 1   | <0.01% |
| PM3242 | Allure Quadra <sup>¬</sup> RF CRT-P | 18,479      | 10.30%                     | 1   | <0.01%  | 0   | 0.00% | 0  | 0.00% | 0   | 0.00% | 2   | 0.01% | 0  | 0.00%   | 0   | 0.00% | 3   | 0.02%  |
| PM3210 | Anthem RF CRT-P                     | 20,647      | 19.60%                     | 3   | 0.01%   | 3   | 0.01% | 0  | 0.00% | 0   | 0.00% | 0   | 0.00% | 1  | < 0.01% | 0   | 0.00% | 7   | 0.03%  |
| 5586   | Frontier" II CRT-P                  | 6,911       | 20.00%                     | 0   | 0.00%   | 0   | 0.00% | 0  | 0.00% | 0   | 0.00% | 0   | 0.00% | 0  | 0.00%   | 1   | 0.01% | 1   | 0.01%  |

#### WITHOUT COMPROMISED THERAPY

|        |                                     | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | RICAL<br>ONENT | ELECTRICAL<br>INTERCONNECT |        | BAT | TERY   |     | WARE/<br>WARE | MECHANICAL |       | POSSIBLE EARLY<br>BATTERY<br>DEPLETION |       | OTHER |        | то  | DTAL  |
|--------|-------------------------------------|-------------|----------------------------|-----|----------------|----------------------------|--------|-----|--------|-----|---------------|------------|-------|--|-------|-------|--------|-----|-------|
| MODELS | FAMILY                              | US IMPLANTS | ANALYSIS                   | QTY | RATE           | QTY                        | RATE   | QTY | RATE   | QTY | RATE          | QTY        | RATE  | QTY                                    | RATE  | QTY   | RATE   | QTY | RATE  |
| PM3562 | Allure Quadra MP <sup>-</sup> CRT-P | 34,990      | 2.30%                      | 0   | 0.00%          | 0                          | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 30         | 0.09% | 0                                      | 0.00% | 0     | 0.00%  | 30  | 0.09% |
| PM3262 | Allure Quadra MP <sup>-</sup> CRT-P | 19,960      | 8.40%                      | 1   | <0.01%         | 0                          | 0.00%  | 0   | 0.00%  | 4   | 0.02%         | 98         | 0.49% | 0                                      | 0.00% | 1     | <0.01% | 104 | 0.52% |
| PM3222 | Allure" RF CRT-P                    | 13,493      | 8.00%                      | 0   | 0.00%          | 0                          | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 65         | 0.48% | 0                                      | 0.00% | 0     | 0.00%  | 65  | 0.48% |
| PM3242 | Allure Quadra <sup>¬</sup> RF CRT-P | 18,479      | 10.30%                     | 2   | 0.01%          | 0                          | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 67         | 0.36% | 0                                      | 0.00% | 0     | 0.00%  | 69  | 0.37% |
| PM3210 | Anthem RF CRT-P                     | 20,647      | 19.60%                     | 3   | 0.01%          | 1                          | <0.01% | 1   | <0.01% | 7   | 0.03%         | 0          | 0.00% | 3                                      | 0.01% | 9     | 0.04%  | 24  | 0.12% |
| 5586   | Frontier" II CRT-P                  | 6,911       | 20.00%                     | 7   | 0.10%          | 0                          | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 0          | 0.00% | 7                                      | 0.10% | 3     | 0.04%  | 17  | 0.25% |

Worldwide Malfunction Summary

#### WITH COMPROMISED THERAPY

|        |                                     | WORLDWIDE | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>PONENT |     | TRICAL<br>ONNECT | BAT | TERY  |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>.ETION | от  | HER   | тс  | DTAL   |
|--------|-------------------------------------|-----------|----------------------------|-----|------------------|-----|------------------|-----|-------|-----|---------------|------|--------|-----|----------------------------|-----|-------|-----|--------|
| MODELS | FAMILY                              | SALES     | ANALYSIS                   | QTY | RATE             | QTY | RATE             | QTY | RATE  | QTY | RATE          | QTY  | RATE   | QTY | RATE                       | QTY | RATE  | QTY | RATE   |
| PM3562 | Allure Quadra MP <sup>-</sup> CRT-P | 80,541    | 1.09%                      | 2   | <0.01%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                      | 0   | 0.00% | 2   | <0.01% |
| PM3262 | Allure Quadra MP <sup>-</sup> CRT-P | 36,619    | 4.64%                      | 0   | 0.00%            | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%         | 8    | 0.02%  | 2   | <0.01%                     | 0   | 0.00% | 10  | 0.03%  |
| PM3222 | Allure" RF CRT-P                    | 45,665    | 2.48%                      | 2   | <0.01%           | 2   | < 0.01%          | 0   | 0.00% | 0   | 0.00%         | 2    | <0.01% | 0   | 0.00%                      | 0   | 0.00% | 6   | 0.01%  |
| PM3242 | Allure Quadra <sup>¬</sup> RF CRT-P | 37,636    | 5.26%                      | 2   | <0.01%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%         | 8    | 0.02%  | 0   | 0.00%                      | 0   | 0.00% | 10  | 0.03%  |
| PM3210 | Anthem RF CRT-P                     | 21,093    | 18.73%                     | 6   | 0.03%            | 6   | 0.03%            | 0   | 0.00% | 0   | 0.00%         | 0    | 0.00%  | 2   | <0.01%                     | 0   | 0.00% | 14  | 0.07%  |

#### WITHOUT COMPROMISED THERAPY

|        |                                     | WORLDWIDE | PERCENT<br>RETURNED FOR |     | TRICAL<br>PONENT |     | TRICAL<br>CONNECT | BAT | TERY    |     | WARE/<br>IWARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>LETION | от  | HER    | то  | DTAL  |
|--------|-------------------------------------|-----------|-------------------------|-----|------------------|-----|-------------------|-----|---------|-----|----------------|------|--------|-----|----------------------------|-----|--------|-----|-------|
| MODELS | FAMILY                              | SALES     | ANALYSIS                | QTY | RATE             | QTY | RATE              | QTY | RATE    | QTY | RATE           | QTY  | RATE   | QTY | RATE                       | QTY | RATE   | QTY | RATE  |
| PM3562 | Allure Quadra MP <sup>-</sup> CRT-P | 80,541    | 1.09%                   | 4   | <0.01%           | 0   | 0.00%             | 0   | 0.00%   | 0   | 0.00%          | 60   | 0.07%  | 0   | 0.00%                      | 4   | <0.01% | 68  | 0.08% |
| PM3262 | Allure Quadra MP <sup>-</sup> CRT-P | 36,619    | 4.64%                   | 0   | 0.00%            | 0   | 0.00%             | 0   | 0.00%   | 8   | 0.02%          | 190  | 0.52%  | 0   | 0.00%                      | 2   | <0.01% | 200 | 0.55% |
| PM3222 | Allure" RF CRT-P                    | 45,665    | 2.48%                   | 2   | <0.01%           | 0   | 0.00%             | 0   | 0.00%   | 0   | 0.00%          | 130  | 0.28%  | 0   | 0.00%                      | 4   | <0.01% | 136 | 0.30% |
| PM3242 | Allure Quadra <sup>¬</sup> RF CRT-P | 37,636    | 5.26%                   | 6   | 0.02%            | 0   | 0.00%             | 0   | 0.00%   | 0   | 0.00%          | 154  | 0.41%  | 2   | <0.01%                     | 2   | <0.01% | 164 | 0.44% |
| PM3210 | Anthem RF CRT-P                     | 21,093    | 18.73%                  | 6   | 0.03%            | 2   | < 0.01%           | 2   | < 0.01% | 14  | 0.07%          | 0    | 0.00%  | 6   | 0.03%                      | 18  | 0.09%  | 48  | 0.23% |

Definitions of malfunction categories can be found on pages 5-6.

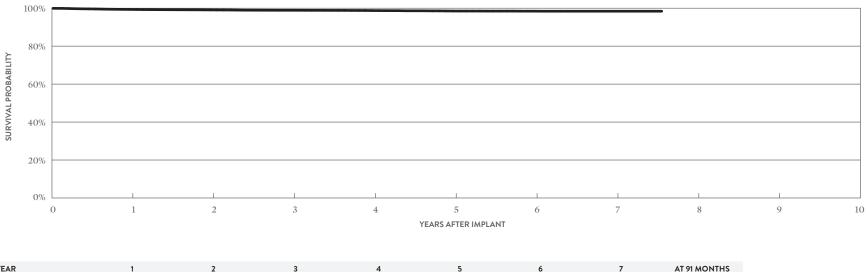
ABBOTT PRODUCT PERFORMANCE REPORT 2024 FIRST EDITION / PAGE 53

# Quartet™ MODEL 1458QL

| US Regulatory Appro  | oval     | October 2015 |  |
|----------------------|----------|--------------|--|
| Registered US Impla  | nts      | 20,567       |  |
| Estimated Active US  | Implants | 13,399       |  |
| Insulation           |          | Optim"*      |  |
| Type and/or Fixation | 1        | S-Curve      |  |
| Polarity             |          | Quadpolar    |  |
| Steroid              |          | Yes          |  |
| Number of US Advise  | ories    | None         |  |
|                      |          |              |  |

|                             | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        |     | DMPLICATIONS<br>DAYS) |
|-----------------------------|--|--------|-----|-----------------------|
|                             | QTY  | RATE   | QTY | RATE                  |
| Cardiac Perforation         | 1  | <0.01% | 1   | <0.01%                |
| Conductor Fracture          | 0  | 0.00%  | 3   | 0.01%                 |
| Lead Dislodgement           | 37   | 0.18%  | 136 | 0.66%                 |
| Failure to Capture          | 23   | 0.11%  | 66  | 0.32%                 |
| Oversensing                 | 0  | 0.00%  | 2   | <0.01%                |
| Failure to Sense            | 0  | 0.00%  | 0   | 0.00%                 |
| Insulation Breach           | 2  | <0.01% | 2   | <0.01%                |
| Abnormal Pacing Impedance   | 5  | 0.02%  | 20  | 0.10%                 |
| Extracardiac Stimulation    | 30   | 0.15%  | 40  | 0.19%                 |
| Other                       | 6  | 0.03%  | 7   | 0.03%                 |
| Total                       | 104  | 0.51%  | 277 | 1.35%                 |
| Total Returned for Analysis | 23   |        | 77  |                       |

| MALFUNCTIONS            | QTY | RATE    |
|-------------------------|-----|---------|
| Conductor Fracture      | 0   | 0.00%   |
| Clavicular Crush        | 0   | 0.00%   |
| In the Pocket           | 0   | 0.00%   |
| Intravascular           | 0   | 0.00%   |
| Insulation Breach       | 1   | < 0.01% |
| Lead-to-Can Contact     | 1   | < 0.01% |
| Lead-to-Lead Contact    | 0   | 0.00%   |
| Clavicular Crush        | 0   | 0.00%   |
| Externalized Conductors | 0   | 0.00%   |
| Other                   | 0   | 0.00%   |
| Crimps, Welds & Bonds   | 0   | 0.00%   |
| Other                   | 0   | 0.00%   |
| Extrinsic Factors       | 71  | 0.35%   |
| Total                   | 72  | 0.35%   |



| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | AT 91 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.36% | 99.10% | 98.91% | 98.76% | 98.52% | 98.45% | 98.42% | 98.42%       |
| ± 1 STANDARD ERROR   | 0.06%  | 0.07%  | 0.08%  | 0.09%  | 0.11%  | 0.12%  | 0.12%  | 0.12%        |
| SAMPLE SIZE          | 18,480 | 14,840 | 11,840 | 9,130  | 6,550  | 4,230  | 2,190  | 220          |

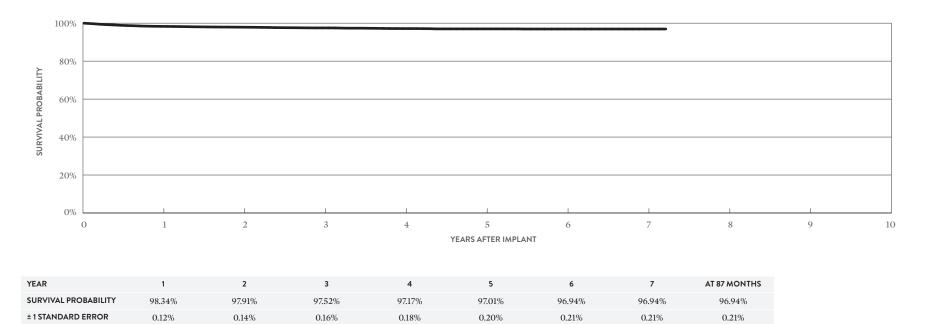
\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

# Quartet<sup>™</sup> MODEL 1457Q

| US Regulatory Approval       | March 2017 |
|------------------------------|------------|
| Registered US Implants       | 12,756     |
| Estimated Active US Implants | 8,326      |
| Insulation                   | Optim"*    |
| Type and/or Fixation         | S-Curve    |
| Polarity                     | Quadpolar  |
| Steroid                      | Yes        |
| Number of US Advisories      | None       |
|                              |            |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | MPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|-----|----------------------|
|                             | QTY | RATE   | QTY | RATE                 |
| Cardiac Perforation         | 0   | 0.00%  | 0   | 0.00%                |
| Conductor Fracture          | 1   | <0.01%   | 0   | 0.00%                |
| Lead Dislodgement           | 63  | 0.49%  | 194 | 1.52%                |
| Failure to Capture          | 14  | 0.11%  | 59  | 0.46%                |
| Oversensing                 | 1   | <0.01%   | 2   | 0.02%                |
| Failure to Sense            | 0   | 0.00%  | 0   | 0.00%                |
| Insulation Breach           | 0   | 0.00%  | 3   | 0.02%                |
| Abnormal Pacing Impedance   | 0   | 0.00%  | 5   | 0.04%                |
| Extracardiac Stimulation    | 17  | 0.13%  | 18  | 0.14%                |
| Other                       | 7   | 0.05%  | 6   | 0.05%                |
| Total                       | 103 | 0.81%  | 287 | 2.25%                |
| Total Returned for Analysis | 30  |  | 115 |                      |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 0   | 0.00% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 0   | 0.00% |
| Intravascular           | 0   | 0.00% |
| Insulation Breach       | 0   | 0.00% |
| Lead-to-Can Contact     | 0   | 0.00% |
| Lead-to-Lead Contact    | 0   | 0.00% |
| Clavicular Crush        | 0   | 0.00% |
| Externalized Conductors | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Extrinsic Factors       | 117 | 0.92% |
| Total                   | 117 | 0.92% |



2,720

1,460

570

220

\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

11,000

8,110

6,010

4,230

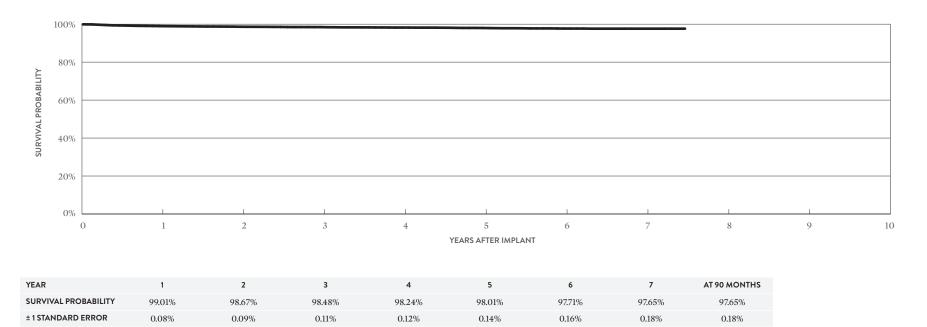
SAMPLE SIZE

## Quartet<sup>™</sup> MODEL 1456Q

| US Regulatory Approval       | October 2015 |
|------------------------------|--------------|
| Registered US Implants       | 17,034       |
| Estimated Active US Implants | 11,291       |
| Insulation                   | Optim"*      |
| Type and/or Fixation         | S-Curve      |
| Polarity                     | Quadpolar    |
| Steroid                      | Yes          |
| Number of US Advisories      | None         |
|                              |              |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | MPLICATIONS<br>DAYS) |  |
|-----------------------------|-----|--|-----|----------------------|--|
|                             | QTY | RATE   | QTY | RATE                 |  |
| Cardiac Perforation         | 2   | 0.01%  | 1   | <0.01%               |  |
| Conductor Fracture          | 2   | 0.01%  | 1   | <0.01%               |  |
| Lead Dislodgement           | 47  | 0.28%  | 168 | 0.99%                |  |
| Failure to Capture          | 15  | 0.09%  | 69  | 0.41%                |  |
| Oversensing                 | 1   | <0.01%   | 2   | 0.01%                |  |
| Failure to Sense            | 0   | 0.00%  | 0   | 0.00%                |  |
| Insulation Breach           | 1   | <0.01%   | 0   | 0.00%                |  |
| Abnormal Pacing Impedance   | 4   | 0.02%  | 5   | 0.03%                |  |
| Extracardiac Stimulation    | 17  | 0.10%  | 23  | 0.14%                |  |
| Other                       | 6   | 0.04%  | 4   | 0.02%                |  |
| Total                       | 95  | 0.56%  | 273 | 1.60%                |  |
| Total Returned for Analysis | 29  |  | 117 |                      |  |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 0   | 0.00% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 0   | 0.00% |
| Intravascular           | 0   | 0.00% |
| Insulation Breach       | 0   | 0.00% |
| Lead-to-Can Contact     | 0   | 0.00% |
| Lead-to-Lead Contact    | 0   | 0.00% |
| Clavicular Crush        | 0   | 0.00% |
| Externalized Conductors | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 5   | 0.03% |
| Extrinsic Factors       | 113 | 0.66% |
| Total                   | 120 | 0.70% |



4,920

3,120

1,540

250

\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

15,020

11,600

9,000

6,840

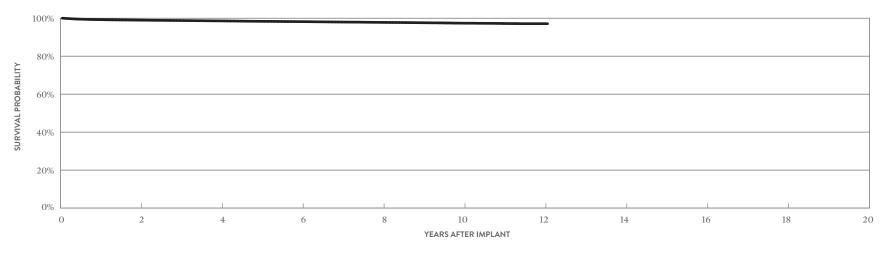
SAMPLE SIZE

# Quartet<sup>™</sup> MODEL 1458Q

| US Regulatory Approval       | November 2011 |
|------------------------------|---------------|
| Registered US Implants       | 199,758       |
| Estimated Active US Implants | 101,616       |
| Insulation                   | Optim"*       |
| Type and/or Fixation         | S-Curve       |
| Polarity                     | Quadpolar     |
| Steroid                      | Yes           |
| Number of US Advisories      | None          |
|                              |               |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |      | MPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|------|----------------------|
|                             | QTY | RATE   | QTY  | RATE                 |
| Cardiac Perforation         | 8   | <0.01%   | 5    | <0.01%               |
| Conductor Fracture          | 0   | 0.00%  | 53   | 0.03%                |
| Lead Dislodgement           | 339 | 0.17%  | 1644 | 0.82%                |
| Failure to Capture          | 155 | 0.08%  | 917  | 0.46%                |
| Oversensing                 | 4   | <0.01%   | 40   | 0.02%                |
| Failure to Sense            | 0   | 0.00%  | 2    | <0.01%               |
| Insulation Breach           | 2   | <0.01%   | 24   | 0.01%                |
| Abnormal Pacing Impedance   | 7   | <0.01%   | 198  | 0.10%                |
| Extracardiac Stimulation    | 126 | 0.06%  | 275  | 0.14%                |
| Other                       | 123 | 0.06%  | 95   | 0.05%                |
| Total                       | 764 | 0.38%  | 3253 | 1.63%                |
| Total Returned for Analysis | 270 |  | 1073 |                      |

| MALFUNCTIONS            | QTY  | RATE    |
|-------------------------|------|---------|
| Conductor Fracture      | 14   | < 0.01% |
| Clavicular Crush        | 2    | < 0.01% |
| In the Pocket           | 4    | < 0.01% |
| Intravascular           | 8    | < 0.01% |
| Insulation Breach       | 3    | < 0.01% |
| Lead-to-Can Contact     | 1    | < 0.01% |
| Lead-to-Lead Contact    | 2    | < 0.01% |
| Clavicular Crush        | 0    | 0.00%   |
| Externalized Conductors | 0    | 0.00%   |
| Other                   | 0    | 0.00%   |
| Crimps, Welds & Bonds   | 0    | 0.00%   |
| Other                   | 15   | < 0.01% |
| Extrinsic Factors       | 1031 | 0.52%   |
| Total                   | 1074 | 0.54%   |



| YEAR                 | 2       | 4       | 6      | 8      | 10     | 12     | AT 145 MONTHS |
|----------------------|---------|---------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.97%  | 98.58%  | 98.19% | 97.79% | 97.37% | 97.11% | 97.11%        |
| ±1 STANDARD ERROR    | 0.02%   | 0.03%   | 0.04%  | 0.04%  | 0.06%  | 0.09%  | 0.09%         |
| SAMPLE SIZE          | 151,910 | 113,140 | 82,570 | 53,210 | 20,750 | 3,000  | 230           |

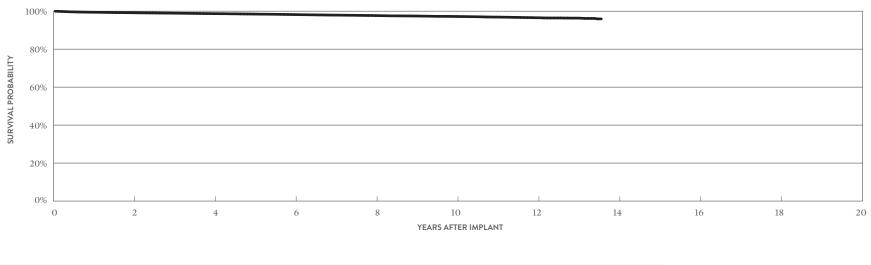
\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

# QuickFlex<sup>™</sup> µ MODEL 1258T

| US Regulatory Approval       | May 2010 |
|------------------------------|----------|
| Registered US Implants       | 51,335   |
| Estimated Active US Implants | 19,183   |
| Insulation                   | Optim"*  |
| Type and/or Fixation         | S-Curve  |
| Polarity                     | Bipolar  |
| Steroid                      | Yes      |
| Number of US Advisories      | None     |
|                              |          |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |      | OMPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|------|-----------------------|
|                             | QTY | RATE   | QTY  | RATE                  |
| Cardiac Perforation         | 0   | 0.00%  | 1    | <0.01%                |
| Conductor Fracture          | 0   | 0.00%  | 53   | 0.10%                 |
| Lead Dislodgement           | 68  | 0.13%  | 317  | 0.62%                 |
| Failure to Capture          | 30  | 0.06%  | 476  | 0.93%                 |
| Oversensing                 | 0   | 0.00%  | 32   | 0.06%                 |
| Failure to Sense            | 1   | <0.01%   | 3    | <0.01%                |
| Insulation Breach           | 0   | 0.00%  | 21   | 0.04%                 |
| Abnormal Pacing Impedance   | 5   | <0.01%   | 116  | 0.23%                 |
| Extracardiac Stimulation    | 40  | 0.08%  | 170  | 0.33%                 |
| Other                       | 16  | 0.03%  | 26   | 0.05%                 |
| Total                       | 160 | 0.31%  | 1215 | 2.37%                 |
| Total Returned for Analysis | 71  |  | 304  |                       |

| MALFUNCTIONS            | QTY | RATE    |
|-------------------------|-----|---------|
| Conductor Fracture      | 12  | 0.02%   |
| Clavicular Crush        | 4   | <0.01%  |
| In the Pocket           | 3   | < 0.01% |
| Intravascular           | 5   | <0.01%  |
| Insulation Breach       | 2   | < 0.01% |
| Lead-to-Can Contact     | 1   | < 0.01% |
| Lead-to-Lead Contact    | 1   | < 0.01% |
| Clavicular Crush        | 0   | 0.00%   |
| Externalized Conductors | 0   | 0.00%   |
| Other                   | 0   | 0.00%   |
| Crimps, Welds & Bonds   | 0   | 0.00%   |
| Other                   | 1   | < 0.01% |
| Extrinsic Factors       | 302 | 0.59%   |
| Total                   | 323 | 0.63%   |



| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 163 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.18% | 98.71% | 98.22% | 97.69% | 97.22% | 96.55% | 95.95%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.05%  | 0.07%  | 0.08%  | 0.09%  | 0.12%  | 0.29%         |
| SAMPLE SIZE          | 41,280 | 33,550 | 27,910 | 23,390 | 17,770 | 9,480  | 290           |

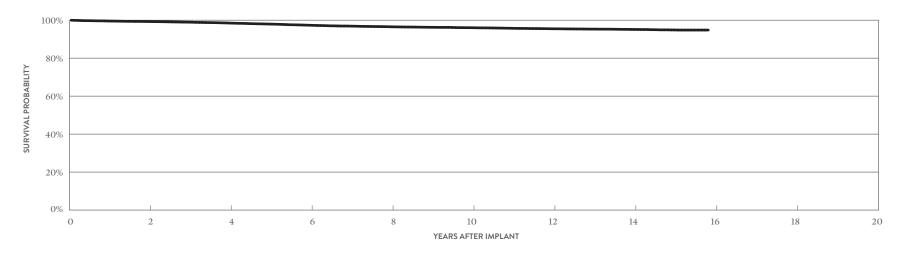
\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

# QuickFlex<sup>™</sup> MODEL 1156T

| US Regulatory Approval                | July 2007             |
|---------------------------------------|-----------------------|
| Registered US Implants                | 28,630                |
| Estimated Active US Implants          | 7,601                 |
| Insulation                            | Polyurethane/Silicone |
| Type and/or Fixation                  | S-Curve               |
| Polarity                              | Bipolar               |
| Steroid                               | Yes                   |
| Number of US Advisories (see pg. 222) | One                   |
|                                       |                       |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | DMPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|-----|-----------------------|
|                             | QTY | RATE   | QTY | RATE                  |
| Cardiac Perforation         | 0   | 0.00%  | 1   | <0.01%                |
| Conductor Fracture          | 0   | 0.00%  | 11  | 0.04%                 |
| Lead Dislodgement           | 11  | 0.04%  | 148 | 0.52%                 |
| Failure to Capture          | 5   | 0.02%  | 262 | 0.92%                 |
| Oversensing                 | 0   | 0.00%  | 20  | 0.07%                 |
| Failure to Sense            | 0   | 0.00%  | 0   | 0.00%                 |
| Insulation Breach           | 0   | 0.00%  | 55  | 0.19%                 |
| Abnormal Pacing Impedance   | 1   | <0.01%   | 71  | 0.25%                 |
| Extracardiac Stimulation    | 14  | 0.05%  | 99  | 0.35%                 |
| Other                       | 9   | 0.03%  | 13  | 0.05%                 |
| Total                       | 40  | 0.14%  | 680 | 2.38%                 |
| Total Returned for Analysis | 14  |  | 179 |                       |

| MALFUNCTIONS            | QTY | RATE    |
|-------------------------|-----|---------|
| Conductor Fracture      | 7   | 0.02%   |
| Clavicular Crush        | 0   | 0.00%   |
| In the Pocket           | 0   | 0.00%   |
| Intravascular           | 7   | 0.02%   |
| Insulation Breach       | 7   | 0.02%   |
| Lead-to-Can Contact     | 0   | 0.00%   |
| Lead-to-Lead Contact    | 1   | < 0.01% |
| Clavicular Crush        | 0   | 0.00%   |
| Externalized Conductors | 1   | < 0.01% |
| Other                   | 5   | 0.02%   |
| Crimps, Welds & Bonds   | 0   | 0.00%   |
| Other                   | 0   | 0.00%   |
| Extrinsic Factors       | 157 | 0.55%   |
| Total                   | 267 | 0.93%   |



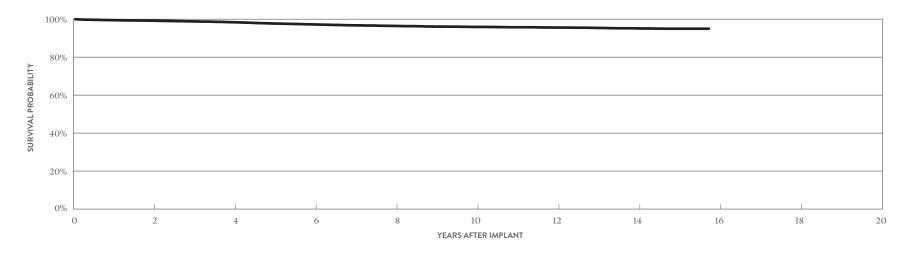
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 190 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.30% | 98.49% | 97.33% | 96.53% | 96.04% | 95.48% | 95.12% | 94.81%        |
| ± 1 STANDARD ERROR   | 0.05%  | 0.08%  | 0.12%  | 0.14%  | 0.16%  | 0.17%  | 0.19%  | 0.22%         |
| SAMPLE SIZE          | 22,080 | 17,230 | 13,880 | 11,710 | 10,280 | 8,960  | 5,500  | 270           |

# QuickFlex<sup>™</sup> XL MODEL 1158T

| US Regulatory Approval                   | July 2007             |
|--|-----------------------|
| Registered US Implants                   | 15,884                |
| Estimated Active US Implants             | 4.313                 |
| Insulation                               | Polyurethane/Silicone |
| Type and/or Fixation                     | S-Curve               |
| Polarity                                 | Bipolar               |
| Steroid                                  | Yes                   |
| Number of US Advisories<br>(see pg. 222) | One                   |
|  |                       |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | MPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|-----|----------------------|
|                             | QTY | RATE   | QTY | RATE                 |
| Cardiac Perforation         | 0   | 0.00%  | 2   | 0.01%                |
| Conductor Fracture          | 0   | 0.00%  | 6   | 0.04%                |
| Lead Dislodgement           | 9   | 0.06%  | 103 | 0.65%                |
| Failure to Capture          | 2   | 0.01%  | 165 | 1.04%                |
| Oversensing                 | 0   | 0.00%  | 5   | 0.03%                |
| Failure to Sense            | 0   | 0.00%  | 1   | <0.01%               |
| Insulation Breach           | 0   | 0.00%  | 35  | 0.22%                |
| Abnormal Pacing Impedance   | 2   | 0.01%  | 29  | 0.18%                |
| Extracardiac Stimulation    | 6   | 0.04%  | 35  | 0.22%                |
| Other                       | 6   | 0.04%  | 11  | 0.07%                |
| Total                       | 25  | 0.16%  | 392 | 2.47%                |
| Total Returned for Analysis | 13  |  | 132 |                      |

| MALFUNCTIONS            | QTY | RATE    |
|-------------------------|-----|---------|
| Conductor Fracture      | 5   | 0.03%   |
| Clavicular Crush        | 0   | 0.00%   |
| In the Pocket           | 1   | < 0.01% |
| Intravascular           | 4   | 0.03%   |
| Insulation Breach       | 1   | < 0.01% |
| Lead-to-Can Contact     | 0   | 0.00%   |
| Lead-to-Lead Contact    | 0   | 0.00%   |
| Clavicular Crush        | 0   | 0.00%   |
| Externalized Conductors | 0   | 0.00%   |
| Other                   | 1   | < 0.01% |
| Crimps, Welds & Bonds   | 1   | < 0.01% |
| Other                   | 0   | 0.00%   |
| Extrinsic Factors       | 99  | 0.62%   |
| Total                   | 168 | 1.06%   |



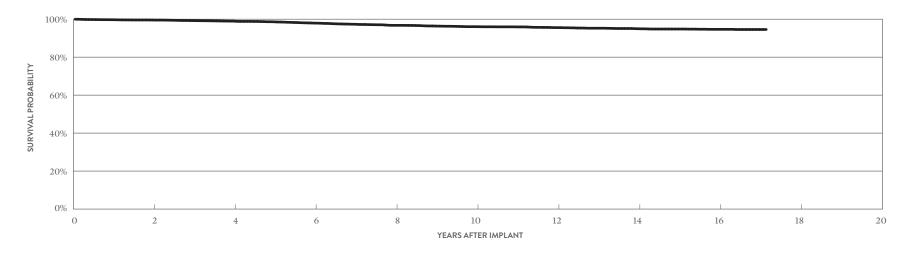
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 189 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.24% | 98.40% | 97.24% | 96.46% | 95.93% | 95.61% | 95.15% | 94.99%        |
| ±1 STANDARD ERROR    | 0.07%  | 0.12%  | 0.16%  | 0.19%  | 0.21%  | 0.22%  | 0.25%  | 0.27%         |
| SAMPLE SIZE          | 12,300 | 9,690  | 7,870  | 6,640  | 5,790  | 5,070  | 2,970  | 270           |

# QuickSite<sup>™</sup> XL MODEL 1058T

| US Regulatory Approval                | February 2006         |
|---------------------------------------|-----------------------|
| Registered US Implants                | 10,049                |
| Estimated Active US Implants          | 2,204                 |
| Insulation                            | Polyurethane/Silicone |
| Type and/or Fixation                  | S-Curve               |
| Polarity                              | Bipolar               |
| Steroid                               | Yes                   |
| Number of US Advisories (see pg. 222) | One                   |
|                                       |                       |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | DAYS)  |
|-----------------------------|-----|--|-----|--------|
|                             | QTY | RATE   | QTY | RATE   |
| Cardiac Perforation         | 0   | 0.00%  | 1   | <0.01% |
| Conductor Fracture          | 0   | 0.00%  | 8   | 0.08%  |
| Lead Dislodgement           | 10  | 0.10%  | 36  | 0.36%  |
| Failure to Capture          | 3   | 0.03%  | 101 | 1.01%  |
| Oversensing                 | 1   | <0.01%   | 4   | 0.04%  |
| Failure to Sense            | 0   | 0.00%  | 2   | 0.02%  |
| Insulation Breach           | 0   | 0.00%  | 32  | 0.32%  |
| Abnormal Pacing Impedance   | 2   | 0.02%  | 22  | 0.22%  |
| Extracardiac Stimulation    | 9   | 0.09%  | 25  | 0.25%  |
| Other                       | 1   | <0.01%   | 6   | 0.06%  |
| Total                       | 26  | 0.26%  | 237 | 2.36%  |
| Total Returned for Analysis | 11  |  | 43  |        |

| MALFUNCTIONS            | QTY | RATE    |
|-------------------------|-----|---------|
| Conductor Fracture      | 2   | 0.02%   |
| Clavicular Crush        | 0   | 0.00%   |
| In the Pocket           | 0   | 0.00%   |
| Intravascular           | 2   | 0.02%   |
| Insulation Breach       | 0   | 0.00%   |
| Lead-to-Can Contact     | 0   | 0.00%   |
| Lead-to-Lead Contact    | 0   | 0.00%   |
| Clavicular Crush        | 0   | 0.00%   |
| Externalized Conductors | 0   | 0.00%   |
| Other                   | 0   | 0.00%   |
| Crimps, Welds & Bonds   | 0   | 0.00%   |
| Other                   | 1   | < 0.01% |
| Extrinsic Factors       | 32  | 0.32%   |
| Total                   | 61  | 0.61%   |



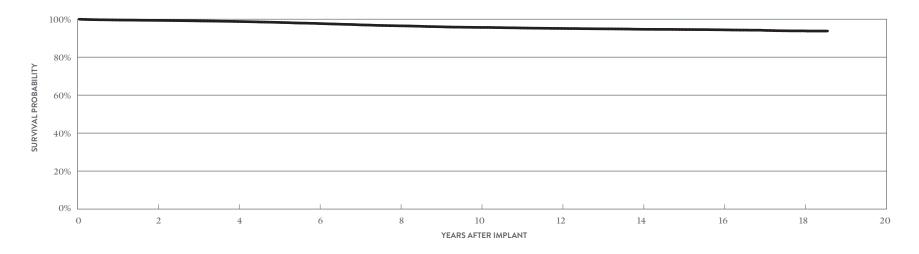
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 206 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.56% | 98.97% | 97.93% | 96.77% | 96.07% | 95.57% | 94.98% | 94.67% | 94.58%        |
| ±1 STANDARD ERROR    | 0.07%  | 0.12%  | 0.19%  | 0.25%  | 0.29%  | 0.32%  | 0.35%  | 0.37%  | 0.38%         |
| SAMPLE SIZE          | 7,720  | 5,780  | 4,480  | 3,640  | 3,110  | 2,800  | 2,490  | 1,810  | 230           |

# QuickSite<sup>™</sup> MODEL 1056T

| US Regulatory Approval                   | April 2005            |
|--|-----------------------|
| Registered US Implants                   | 32,639                |
| Estimated Active US Implants             | 6,388                 |
| Insulation                               | Polyurethane/Silicone |
| Type and/or Fixation                     | S-Curve               |
| Polarity                                 | Bipolar               |
| Steroid                                  | Yes                   |
| Number of US Advisories<br>(see pg. 222) | One                   |
|  |                       |

|                             |     | SERVATIONS<br>NT, ≤30 DAYS) |     | MPLICATIONS<br>DAYS) |  |
|-----------------------------|-----|-----------------------------|-----|----------------------|--|
|                             | QTY | RATE                        | QTY | RATE                 |  |
| Cardiac Perforation         | 0   | 0.00%                       | 0   | 0.00%                |  |
| Conductor Fracture          | 0   | 0.00%                       | 13  | 0.04%                |  |
| Lead Dislodgement           | 32  | 0.10%                       | 176 | 0.54%                |  |
| Failure to Capture          | 15  | 0.05%                       | 302 | 0.93%                |  |
| Oversensing                 | 2   | <0.01%                      | 28  | 0.09%                |  |
| Failure to Sense            | 0   | 0.00%                       | 2   | <0.01%               |  |
| Insulation Breach           | 1   | <0.01%                      | 114 | 0.35%                |  |
| Abnormal Pacing Impedance   | 3   | <0.01%                      | 69  | 0.21%                |  |
| Extracardiac Stimulation    | 22  | 0.07%                       | 112 | 0.34%                |  |
| Other                       | 9   | 0.03%                       | 30  | 0.09%                |  |
| Total                       | 84  | 0.26%                       | 846 | 2.59%                |  |
| Total Returned for Analysis | 28  |                             | 222 |                      |  |

| MALFUNCTIONS            | QTY | RATE    |
|-------------------------|-----|---------|
| Conductor Fracture      | 6   | 0.02%   |
| Clavicular Crush        | 0   | 0.00%   |
| In the Pocket           | 2   | < 0.01% |
| Intravascular           | 4   | 0.01%   |
| Insulation Breach       | 5   | 0.02%   |
| Lead-to-Can Contact     | 0   | 0.00%   |
| Lead-to-Lead Contact    | 1   | < 0.01% |
| Clavicular Crush        | 0   | 0.00%   |
| Externalized Conductors | 0   | 0.00%   |
| Other                   | 4   | 0.01%   |
| Crimps, Welds & Bonds   | 0   | 0.00%   |
| Other                   | 1   | < 0.01% |
| Extrinsic Factors       | 169 | 0.52%   |
| Total                   | 274 | 0.84%   |



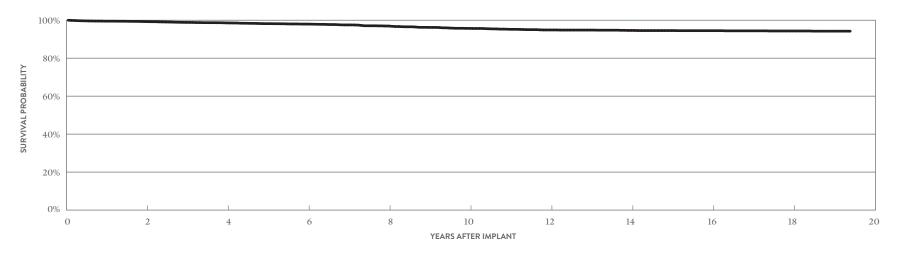
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | 18     | AT 223 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.38% | 98.80% | 97.72% | 96.51% | 95.67% | 95.13% | 94.68% | 94.40% | 93.85% | 93.77%        |
| ±1 STANDARD ERROR    | 0.05%  | 0.07%  | 0.11%  | 0.15%  | 0.17%  | 0.19%  | 0.20%  | 0.21%  | 0.25%  | 0.26%         |
| SAMPLE SIZE          | 25,200 | 18,880 | 14,100 | 11,150 | 9,270  | 8,240  | 7,370  | 5,880  | 2,180  | 240           |

# QuickSite<sup>™</sup> MODEL 1056K

| US Regulatory Approval       | June 2004             |
|------------------------------|-----------------------|
| Registered US Implants       | 7,874                 |
| Estimated Active US Implants | 1,299                 |
| Insulation                   | Polyurethane/Silicone |
| Type and/or Fixation         | S-Curve               |
| Polarity                     | Unipolar              |
| Steroid                      | Yes                   |
| Number of US Advisories      | None                  |
|                              |                       |

|                             |     | ERVATIONS<br>NT, ≤30 DAYS) |     | MPLICATIONS<br>DAYS) |
|-----------------------------|-----|----------------------------|-----|----------------------|
|                             | QTY | RATE                       | QTY | RATE                 |
| Cardiac Perforation         | 0   | 0.00%                      | 0   | 0.00%                |
| Conductor Fracture          | 0   | 0.00%                      | 8   | 0.10%                |
| Lead Dislodgement           | 10  | 0.13%                      | 36  | 0.46%                |
| Failure to Capture          | 3   | 0.04%                      | 78  | 0.99%                |
| Oversensing                 | 0   | 0.00%                      | 2   | 0.03%                |
| Failure to Sense            | 0   | 0.00%                      | 0   | 0.00%                |
| Insulation Breach           | 0   | 0.00%                      | 6   | 0.08%                |
| Abnormal Pacing Impedance   | 0   | 0.00%                      | 9   | 0.11%                |
| Extracardiac Stimulation    | 10  | 0.13%                      | 32  | 0.41%                |
| Other                       | 2   | 0.03%                      | 12  | 0.15%                |
| Total                       | 25  | 0.32%                      | 183 | 2.32%                |
| Total Returned for Analysis | 13  |                            | 52  |                      |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 3   | 0.04% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 0   | 0.00% |
| Intravascular           | 3   | 0.04% |
| Insulation Breach       | 0   | 0.00% |
| Lead-to-Can Contact     | 0   | 0.00% |
| Lead-to-Lead Contact    | 0   | 0.00% |
| Clavicular Crush        | 0   | 0.00% |
| Externalized Conductors | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Extrinsic Factors       | 53  | 0.67% |
| Total                   | 59  | 0.75% |



| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | 18     | AT 233 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.26% | 98.57% | 97.96% | 96.94% | 95.69% | 94.86% | 94.61% | 94.48% | 94.32% | 94.22%        |
| ± 1 STANDARD ERROR   | 0.10%  | 0.15%  | 0.20%  | 0.28%  | 0.37%  | 0.43%  | 0.44%  | 0.45%  | 0.46%  | 0.47%         |
| SAMPLE SIZE          | 6,050  | 4,420  | 3,160  | 2,340  | 1,900  | 1,650  | 1,510  | 1,350  | 1,080  | 260           |

SUMMARY INFORMATION Left-Heart Leads

Survival Probability Summary

| MODELS | FAMILY                    | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|--------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1458QL | Quartet"                  | 99.36% | 99.10% | 98.91% | 98.76% | 98.52% | 98.45% | 98.42% |        |        |         |
| 1457Q  | QuickFlex" µ              | 98.34% | 97.91% | 97.52% | 97.17% | 97.01% | 96.94% | 96.94% |        |        |         |
| 1456Q  | QuickFlex <sup>™</sup> µ  | 99.01% | 98.67% | 98.48% | 98.24% | 98.01% | 97.71% | 97.65% |        |        |         |
| 1458Q  | Quartet"                  | 99.24% | 98.97% | 98.78% | 98.58% | 98.35% | 98.19% | 97.98% | 97.79% | 97.61% | 97.37%  |
| 1258T  | QuickFlex" µ              | 99.45% | 99.18% | 98.95% | 98.71% | 98.49% | 98.22% | 97.94% | 97.69% | 97.46% | 97.22%  |
| 1156T  | QuickFlex"                | 99.56% | 99.30% | 98.95% | 98.49% | 97.96% | 97.33% | 96.87% | 96.53% | 96.26% | 96.04%  |
| 1158T  | QuickFlex <sup>®</sup> XL | 99.48% | 99.24% | 98.85% | 98.40% | 97.72% | 97.24% | 96.78% | 96.46% | 96.10% | 95.93%  |
| 1058T  | QuickSite" XL             | 99.73% | 99.56% | 99.26% | 98.97% | 98.62% | 97.93% | 97.35% | 96.77% | 96.38% | 96.07%  |
| 1056T  | QuickSite"                | 99.59% | 99.38% | 99.11% | 98.80% | 98.32% | 97.72% | 97.05% | 96.51% | 96.02% | 95.67%  |
| 1056K  | QuickSite"                | 99.48% | 99.26% | 98.84% | 98.57% | 98.18% | 97.96% | 97.52% | 96.94% | 96.20% | 95.69%  |

# Acute Observation Summary POST IMPLANT ≤30 DAYS

|        | US<br>REGULATORY | REGISTERED  | ESTIMATED<br>ACTIVE US |     | RDIAC  |     | OUCTOR  |     | EAD<br>DGEMENT |     | JRE TO<br>TURE | OVER | SENSING |     | LURE   |     | LATION<br>EACH | PA  | ORMAL<br>CING<br>DANCE |     | CARDIAC<br>LATION | от  | HER    | тс  | TAL   | TOTAL<br>RETURNED<br>FOR |
|--------|------------------|-------------|------------------------|-----|--------|-----|---------|-----|----------------|-----|----------------|------|---------|-----|--------|-----|----------------|-----|------------------------|-----|-------------------|-----|--------|-----|-------|--------------------------|
| MODELS | APPROVAL         | US IMPLANTS | IMPLANTS               | QTY | RATE   | QTY | RATE    | QTY | RATE           | QTY | RATE           | QTY  | RATE    | QTY | RATE   | QTY | RATE           | QTY | RATE                   | QTY | RATE              | QTY | RATE   | QTY | RATE  | ANALYSIS                 |
| 1458QL | Oct-15           | 20,567      | 13,399                 | 1   | <0.01% | 0   | 0.00%   | 37  | 0.18%          | 23  | 0.11%          | 0    | 0.00%   | 0   | 0.00%  | 2   | <0.01%         | 5   | 0.02%                  | 30  | 0.15%             | 6   | 0.03%  | 104 | 0.51% | 23                       |
| 1457Q  | Oct-15           | 12,756      | 8,326                  | 0   | 0.00%  | 1   | < 0.01% | 63  | 0.49%          | 14  | 0.11%          | 1    | <0.01%  | 0   | 0.00%  | 0   | 0.00%          | 0   | 0.00%                  | 17  | 0.13%             | 7   | 0.05%  | 103 | 0.81% | 30                       |
| 1456Q  | Oct-15           | 17,034      | 11,291                 | 2   | 0.01%  | 2   | 0.01%   | 47  | 0.28%          | 15  | 0.09%          | 1    | <0.01%  | 0   | 0.00%  | 1   | <0.01%         | 4   | 0.02%                  | 17  | 0.10%             | 6   | 0.04%  | 95  | 0.56% | 29                       |
| 1458Q  | Nov-11           | 199,758     | 101,616                | 8   | <0.01% | 0   | 0.00%   | 339 | 0.17%          | 155 | 0.08%          | 4    | <0.01%  | 0   | 0.00%  | 2   | <0.01%         | 7   | <0.01%                 | 126 | 0.06%             | 123 | 0.06%  | 764 | 0.38% | 270                      |
| 1258T  | May-10           | 51,335      | 19,183                 | 0   | 0.00%  | 0   | 0.00%   | 68  | 0.13%          | 30  | 0.06%          | 0    | 0.00%   | 1   | <0.01% | 0   | 0.00%          | 5   | <0.01%                 | 40  | 0.08%             | 16  | 0.03%  | 160 | 0.31% | 71                       |
| 1156T  | Jul-07           | 28,630      | 7,601                  | 0   | 0.00%  | 0   | 0.00%   | 11  | 0.04%          | 5   | 0.02%          | 0    | 0.00%   | 0   | 0.00%  | 0   | 0.00%          | 1   | <0.01%                 | 14  | 0.05%             | 9   | 0.03%  | 40  | 0.14% | 14                       |
| 1158T  | Jul-07           | 15,884      | 4,313                  | 0   | 0.00%  | 0   | 0.00%   | 9   | 0.06%          | 2   | 0.01%          | 0    | 0.00%   | 0   | 0.00%  | 0   | 0.00%          | 2   | 0.01%                  | 6   | 0.04%             | 6   | 0.04%  | 25  | 0.16% | 13                       |
| 1058T  | Feb-06           | 10,049      | 2,204                  | 0   | 0.00%  | 0   | 0.00%   | 10  | 0.10%          | 3   | 0.03%          | 1    | <0.01%  | 0   | 0.00%  | 0   | 0.00%          | 2   | 0.02%                  | 9   | 0.09%             | 1   | <0.01% | 26  | 0.26% | 11                       |
| 1056T  | Apr-05           | 32,639      | 6,388                  | 0   | 0.00%  | 0   | 0.00%   | 32  | 0.10%          | 15  | 0.05%          | 2    | <0.01%  | 0   | 0.00%  | 1   | <0.01%         | 3   | <0.01%                 | 22  | 0.07%             | 9   | 0.03%  | 84  | 0.26% | 28                       |
| 1056K  | Jun-04           | 7,874       | 1,299                  | 0   | 0.00%  | 0   | 0.00%   | 10  | 0.13%          | 3   | 0.04%          | 0    | 0.00%   | 0   | 0.00%  | 0   | 0.00%          | 0   | 0.00%                  | 10  | 0.13%             | 2   | 0.03%  | 25  | 0.32% | 13                       |

# Chronic Complication Summary >30 DAYS

| JUDAI  | US<br>REGULATORY | REGISTERED  | ESTIMATED<br>ACTIVE US |     | RDIAC<br>DRATION |     | OUCTOR  |      | EAD<br>DGEMENT |     | JRE TO<br>TURE | OVERS | ENSING |     | LURE<br>SENSE |     | LATION<br>EACH | PAG | DRMAL<br>CING<br>DANCE |     | CARDIAC<br>LATION | от  | HER   | то   | TAL   | TOTAL<br>RETURNED<br>FOR |
|--------|------------------|-------------|------------------------|-----|------------------|-----|---------|------|----------------|-----|----------------|-------|--------|-----|---------------|-----|----------------|-----|------------------------|-----|-------------------|-----|-------|------|-------|--------------------------|
| MODELS | APPROVAL         | US IMPLANTS | IMPLANTS               | QTY | RATE             | QTY | RATE    | QTY  | RATE           | QTY | RATE           | QTY   | RATE   | QTY | RATE          | QTY | RATE           | QTY | RATE                   | QTY | RATE              | QTY | RATE  | QTY  | RATE  | ANALYSIS                 |
| 1458QL | Oct-15           | 20,567      | 13,399                 | 1   | <0.01%           | 3   | 0.01%   | 136  | 0.66%          | 66  | 0.32%          | 2     | <0.01% | 0   | 0.00%         | 2   | <0.01%         | 20  | 0.10%                  | 40  | 0.19%             | 7   | 0.03% | 277  | 1.35% | 77                       |
| 1457Q  | Oct-15           | 12,756      | 8,326                  | 0   | 0.00%            | 0   | 0.00%   | 194  | 1.52%          | 59  | 0.46%          | 2     | 0.02%  | 0   | 0.00%         | 3   | 0.02%          | 5   | 0.04%                  | 18  | 0.14%             | 6   | 0.05% | 287  | 2.25% | 115                      |
| 1456Q  | Oct-15           | 17,034      | 11,291                 | 1   | <0.01%           | 1   | < 0.01% | 168  | 0.99%          | 69  | 0.41%          | 2     | 0.01%  | 0   | 0.00%         | 0   | 0.00%          | 5   | 0.03%                  | 23  | 0.14%             | 4   | 0.02% | 273  | 1.60% | 117                      |
| 1458Q  | Nov-11           | 199,758     | 101,616                | 5   | <0.01%           | 53  | 0.03%   | 1644 | 0.82%          | 917 | 0.46%          | 40    | 0.02%  | 2   | <0.01%        | 24  | 0.01%          | 198 | 0.10%                  | 275 | 0.14%             | 95  | 0.05% | 3253 | 1.63% | 1073                     |
| 1258T  | May-10           | 51,335      | 19,183                 | 1   | <0.01%           | 53  | 0.10%   | 317  | 0.62%          | 476 | 0.93%          | 32    | 0.06%  | 3   | <0.01%        | 21  | 0.04%          | 116 | 0.23%                  | 170 | 0.33%             | 26  | 0.05% | 1215 | 2.37% | 304                      |
| 1156T  | Jul-07           | 28,630      | 7,601                  | 1   | <0.01%           | 11  | 0.04%   | 148  | 0.52%          | 262 | 0.92%          | 20    | 0.07%  | 0   | 0.00%         | 55  | 0.19%          | 71  | 0.25%                  | 99  | 0.35%             | 13  | 0.05% | 680  | 2.38% | 179                      |
| 1158T  | Jul-07           | 15,884      | 4,313                  | 2   | 0.01%            | 6   | 0.04%   | 103  | 0.65%          | 165 | 1.04%          | 5     | 0.03%  | 1   | <0.01%        | 35  | 0.22%          | 29  | 0.18%                  | 35  | 0.22%             | 11  | 0.07% | 392  | 2.47% | 132                      |
| 1058T  | Feb-06           | 10,049      | 2,204                  | 1   | <0.01%           | 8   | 0.08%   | 36   | 0.36%          | 101 | 1.01%          | 4     | 0.04%  | 2   | 0.02%         | 32  | 0.32%          | 22  | 0.22%                  | 25  | 0.25%             | 6   | 0.06% | 237  | 2.36% | 43                       |
| 1056T  | Apr-05           | 32,639      | 6,388                  | 0   | 0.00%            | 13  | 0.04%   | 176  | 0.54%          | 302 | 0.93%          | 28    | 0.09%  | 2   | <0.01%        | 114 | 0.35%          | 69  | 0.21%                  | 112 | 0.34%             | 30  | 0.09% | 846  | 2.59% | 222                      |
| 1056K  | Jun-04           | 7,874       | 1,299                  | 0   | 0.00%            | 8   | 0.10%   | 36   | 0.46%          | 78  | 0.99%          | 2     | 0.03%  | 0   | 0.00%         | 6   | 0.08%          | 9   | 0.11%                  | 32  | 0.41%             | 12  | 0.15% | 183  | 2.32% | 52                       |

Definitions of observations and complications can be found on page 7.

US Malfunction Summary

| REGISTERED |             | PERCENT<br>RETURNED |     |        | INSULATION<br>BREACH |        | CRIMPS, WELDS<br>& BONDS |        | OTHER |        | EXTRINSIC<br>FACTORS |       | TOTAL |       |
|------------|-------------|---------------------|-----|--------|----------------------|--------|--------------------------|--------|-------|--------|----------------------|-------|-------|-------|
| MODELS     | US IMPLANTS | FOR ANALYSIS        | QTY | RATE   | QTY                  | RATE   | QTY                      | RATE   | QTY   | RATE   | QTY                  | RATE  | QTY   | RATE  |
| 1458QL     | 20,567      | 5.50%               | 0   | 0.00%  | 1                    | <0.01% | 0                        | 0.00%  | 0     | 0.00%  | 71                   | 0.35% | 72    | 0.35% |
| 1457Q      | 12,756      | 6.90%               | 0   | 0.00%  | 0                    | 0.00%  | 0                        | 0.00%  | 0     | 0.00%  | 117                  | 0.92% | 117   | 0.92% |
| 1456Q      | 17,034      | 9.30%               | 0   | 0.00%  | 0                    | 0.00%  | 0                        | 0.00%  | 5     | 0.03%  | 113                  | 0.66% | 118   | 0.69% |
| 1458Q      | 199,758     | 7.70%               | 14  | <0.01% | 3                    | <0.01% | 0                        | 0.00%  | 15    | <0.01% | 1031                 | 0.52% | 1063  | 0.53% |
| 1258T      | 51,335      | 13.20%              | 12  | 0.02%  | 2                    | <0.01% | 0                        | 0.00%  | 1     | <0.01% | 302                  | 0.59% | 317   | 0.62% |
| 1156T      | 28,630      | 10.20%              | 7   | 0.02%  | 7                    | 0.02%  | 0                        | 0.00%  | 0     | 0.00%  | 157                  | 0.55% | 171   | 0.60% |
| 1158T      | 15,884      | 11.20%              | 5   | 0.03%  | 1                    | <0.01% | 1                        | <0.01% | 0     | 0.00%  | 99                   | 0.62% | 106   | 0.67% |
| 1058T      | 10,049      | 10.80%              | 2   | 0.02%  | 0                    | 0.00%  | 0                        | 0.00%  | 1     | <0.01% | 32                   | 0.32% | 35    | 0.35% |
| 1056T      | 32,639      | 10.30%              | 6   | 0.02%  | 5                    | 0.02%  | 0                        | 0.00%  | 1     | <0.01% | 169                  | 0.52% | 181   | 0.55% |
| 1056K      | 7,874       | 15.90%              | 3   | 0.04%  | 0                    | 0.00%  | 0                        | 0.00%  | 0     | 0.00%  | 53                   | 0.67% | 56    | 0.71% |

Definitions of malfunction categories can be found on pages 8-9.

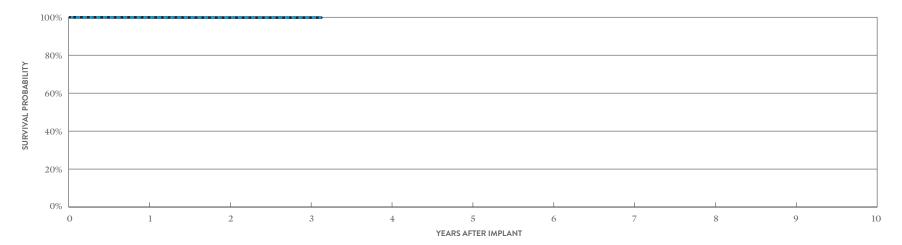
Worldwide Malfunction Summary

|        | WORLWIDE | PERCENT<br>RETURNED |     |       |     | LATION<br>EACH |     | S, WELDS<br>DNDS | от  | HER     |      | INSIC<br>TORS | то   | TAL   |
|--------|----------|---------------------|-----|-------|-----|----------------|-----|------------------|-----|---------|------|---------------|------|-------|
| MODELS | SALES    | FOR ANALYSIS        | QTY | RATE  | QTY | RATE           | QTY | RATE             | QTY | RATE    | QTY  | RATE          | QTY  | RATE  |
| 1458QL | 45,963   | 2.46%               | 0   | 0.00% | 1   | <0.01%         | 0   | 0.00%            | 1   | <0.01%  | 88   | 0.19%         | 90   | 0.20% |
| 1457Q  | 34,162   | 2.58%               | 0   | 0.00% | 0   | 0.00%          | 0   | 0.00%            | 0   | 0.00%   | 133  | 0.39%         | 133  | 0.39% |
| 1456Q  | 50,911   | 3.10%               | 0   | 0.00% | 3   | 0.01%          | 0   | 0.00%            | 9   | 0.02%   | 147  | 0.29%         | 159  | 0.31% |
| 1458Q  | 448,290  | 3.62%               | 39  | 0.01% | 24  | 0.01%          | 0   | 0.00%            | 32  | 0.01%   | 1438 | 0.32%         | 1533 | 0.34% |
| 1258T  | 199,584  | 3.93%               | 53  | 0.03% | 15  | 0.01%          | 0   | 0.00%            | 5   | < 0.01% | 462  | 0.23%         | 535  | 0.27% |

Definitions of malfunction categories can be found on pages 8-9.

DUAL-CHAMBER Implantable Cardioverter Defibrillator (ICD) Devices

| Gallant™ DR<br>MODEL CDDRA500Q*        |                        |                                  |     | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |
|--|------------------------|----------------------------------|-----|-----------------------------|--|---------|
|  |                        |                                  | QTY | RATE                        | QTY  | RATE    |
| US Regulatory Approval                 | June 2020              | Electrical Component             | 0   | 0.00%                       | 6  | 0.03%   |
| Registered US Implants                 | 29,048                 | Electrical Interconnect          | 0   | 0.00%                       | 0  | 0.00%   |
| Estimated Active US Implants           | 24,352                 | Battery                          | 0   | 0.00%                       | 0  | 0.00%   |
| Estimated Longevity                    | (see table on page 86) | High Voltage Capacitor           | 0   | 0.00%                       | 1  | < 0.01% |
| Normal Battery Depletion               | 1                      | Software/Firmware                | 0   | 0.00%                       | 0  | 0.00%   |
| Max. Delivered Energy                  | 36 joules              | Mechanical                       | 0   | 0.00%                       | 0  | 0.00%   |
| Number of US Advisories (see page 204) | One                    | Possible Early Battery Depletion | 0   | 0.00%                       | 0  | 0.00%   |
|  |                        | Other                            | 0   | 0.00%                       | 2  | <0.01%  |
|  |                        | Total                            | 0   | 0.00%                       | 9  | 0.04%   |



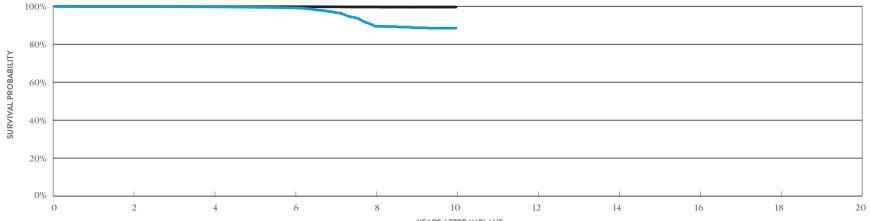
## INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | AT 38 MONTHS |
|----------------------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.92% | 99.83% | 99.83% | 99.83%       |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.03%  | 0.03%        |
| SAMPLE SIZE          | 22,740 | 11,580 | 3,610  | 240          |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | AT 38 MONTHS |
|----------------------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.93% | 99.84% | 99.84% | 99.84%       |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.03%  | 0.03%        |

| Ellipse™ DR<br>MODEL CD2411-36Q* | W/ COM                 | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |        |
|----------------------------------|------------------------|----------------------------------|--|---------|-----|--------|
|                                  |                        |                                  | QTY  | RATE    | QTY | RATE   |
| US Regulatory Approval           | June 2013              | Electrical Component             | 3  | <0.01%  | 12  | 0.04%  |
| Registered US Implants           | 33,978                 | Electrical Interconnect          | 1  | < 0.01% | 0   | 0.00%  |
| Estimated Active US Implants     | 17,686                 | Battery                          | 0  | 0.00%   | 0   | 0.00%  |
| Estimated Longevity              | (see table on page 86) | High Voltage Capacitor           | 2  | < 0.01% | 2   | <0.01% |
| Normal Battery Depletion         | 266                    | Software/Firmware                | 1  | < 0.01% | 0   | 0.00%  |
| Max. Delivered Energy            | 36 joules              | Mechanical                       | 1  | < 0.01% | 4   | 0.01%  |
| Number of US Advisories          |                        | Possible Early Battery Depletion | 0  | 0.00%   | 1   | <0.01% |
| (see pgs. 205, 206, 208)         | 206, 208) Three        |                                  | 2  | < 0.01% | 6   | 0.02%  |
|                                  |                        | Total                            | 10   | 0.03%   | 25  | 0.07%  |



YEARS AFTER IMPLANT

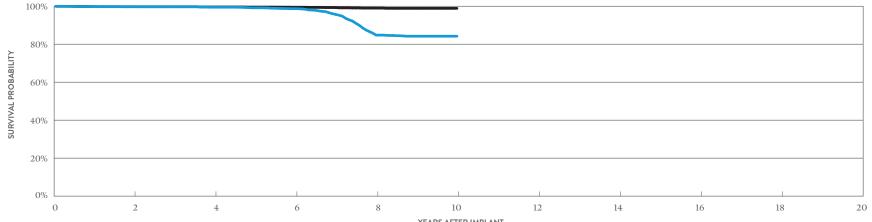
INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     |
|----------------------|--------|--------|--------|--------|--------|
| SURVIVAL PROBABILITY | 99.85% | 99.68% | 99.16% | 89.49% | 88.46% |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.07%  | 0.38%  | 0.46%  |
| SAMPLE SIZE          | 27,390 | 19,470 | 11,560 | 5,040  | 230    |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     |
|----------------------|--------|--------|--------|--------|--------|
| SURVIVAL PROBABILITY | 99.86% | 99.80% | 99.77% | 99.63% | 99.57% |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.03%  | 0.06%  | 0.07%  |

| Ellipse™ DR<br>MODEL CD2411-36C* |                          |                                  |     | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |  |
|----------------------------------|--------------------------|----------------------------------|-----|-----------------------------|--|---------|--|
|                                  |                          |                                  | QTY | RATE                        | QTY  | RATE    |  |
| US Regulatory Approval           | June 2013                | Electrical Component             | 3   | 0.02%                       | 8  | 0.07%   |  |
| Registered US Implants           | 12,267                   | Electrical Interconnect          | 0   | 0.00%                       | 0  | 0.00%   |  |
| Estimated Active US Implants     | 5,693                    | Battery                          | 0   | 0.00%                       | 0  | 0.00%   |  |
| Estimated Longevity              | (see table on page 86)   | High Voltage Capacitor           | 7   | 0.06%                       | 2  | 0.02%   |  |
| Normal Battery Depletion         | 193                      | Software/Firmware                | 0   | 0.00%                       | 0  | 0.00%   |  |
| Max. Delivered Energy            | 36 joules                | Mechanical                       | 0   | 0.00%                       | 1  | < 0.01% |  |
| Number of US Advisories          | _                        | Possible Early Battery Depletion | 0   | 0.00%                       | 1  | < 0.01% |  |
| (see pgs. 205, 206, 208)         | (see pgs. 205, 206, 208) |                                  | 1   | < 0.01%                     | 5  | 0.04%   |  |
|                                  |                          | Total                            | 11  | 0.09%                       | 17   | 0.14%   |  |



YEARS AFTER IMPLANT

INCLUDING NORMAL BATTERY DEPLETION

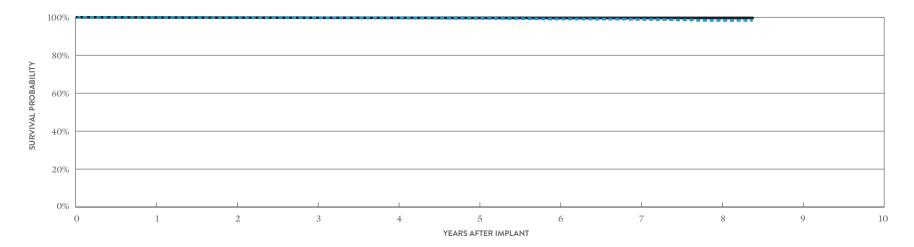
| YEAR                 | 2      | 4      | 6      | 8      | 10     |
|----------------------|--------|--------|--------|--------|--------|
| SURVIVAL PROBABILITY | 99.74% | 99.50% | 98.74% | 84.81% | 84.23% |
| ± 1 STANDARD ERROR   | 0.05%  | 0.08%  | 0.14%  | 0.61%  | 0.66%  |
| SAMPLE SIZE          | 9,600  | 7,220  | 5,390  | 2,740  | 220    |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     |
|----------------------|--------|--------|--------|--------|--------|
| SURVIVAL PROBABILITY | 99.78% | 99.63% | 99.49% | 99.01% | 98.90% |
| ±1 STANDARD ERROR    | 0.05%  | 0.06%  | 0.08%  | 0.14%  | 0.16%  |

\*Parylene coating.

| Fortify Assura <sup>™</sup> DR<br>MODEL CD2357-40Q* (NON-BATTERY ADVISORY POPULATION) |                        |  |                                  |     | NCTIONS<br>PROMISED<br>RAPY |   | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |
|---|------------------------|--|----------------------------------|-----|-----------------------------|---|--|---------|
|   |                        |  |                                  | QTY | RATE                        | Q | TΥ   | RATE    |
| US Regulatory Approval  | June 2013              |  | Electrical Component             | 3   | < 0.01%                     | 1 | 6  | 0.04%   |
| Registered US Implants  | 43,189                 |  | Electrical Interconnect          | 0   | 0.00%                       |   | 1  | <0.01%  |
| Estimated Active US Implants  | 25,468                 |  | Battery                          | 2   | < 0.01%                     |   | 4  | <0.01%  |
| Estimated Longevity   | (see table on page 86) |  | High Voltage Capacitor           | 3   | <0.01%                      |   | 1  | <0.01%  |
| Normal Battery Depletion  | 49                     |  | Software/Firmware                | 0   | 0.00%                       |   | Э  | 0.00%   |
| Max. Delivered Energy   | 40 joules              |  | Mechanical                       | 0   | 0.00%                       |   | 2  | <0.01%  |
| Number of US Advisories (see pg. 206)   | One                    |  | Possible Early Battery Depletion |     | 0.00%                       |   | 3  | <0.01%  |
|   |                        |  | Other                            | 7   | 0.02%                       |   | 4  | < 0.01% |
|   |                        |  | Total                            | 15  | 0.03%                       | â | 1  | 0.07%   |



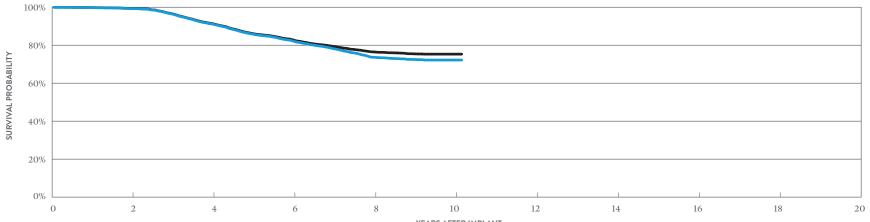
| INCLUDING | NORMAL E | <b>BATTERY I</b> | DEPLETION |  |
|-----------|----------|------------------|-----------|--|
|           |          |                  |           |  |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 101 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.86% | 99.79% | 99.74% | 99.64% | 99.40% | 99.10% | 98.86% | 98.35% | 98.35%        |
| ± 1 STANDARD ERROR   | 0.02%  | 0.02%  | 0.03%  | 0.03%  | 0.05%  | 0.07%  | 0.09%  | 0.17%  | 0.17%         |
| SAMPLE SIZE          | 40,270 | 34,880 | 29,620 | 23,480 | 17,150 | 11,730 | 7,070  | 2,980  | 290           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 101 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.88% | 99.82% | 99.76% | 99.72% | 99.67% | 99.65% | 99.65% | 99.65% | 99.65%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.02%  | 0.03%  | 0.03%  | 0.03%  | 0.04%  | 0.04%  | 0.04%  | 0.04%         |

| Fortify Assura <sup>™</sup> DR<br>MODEL CD2357-40Q* (BATTERY A | W/ COM                 | NCTIONS<br>PROMISED<br>ERAPY  | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |        |
|--|------------------------|-------------------------------|--|---------|-----|--------|
|  |                        |                               | QTY  | RATE    | QTY | RATE   |
| US Regulatory Approval   | June 2013              | Electrical Component          | 3  | 0.02%   | 10  | 0.08%  |
| Registered US Implants   | 12,263                 | Electrical Interconnect       | 1  | < 0.01% | 0   | 0.00%  |
| Estimated Active US Implants                                   | 4,104                  | Battery                       | 0  | 0.00%   | 19  | 0.15%  |
| Estimated Longevity  | (see table on page 86) | High Voltage Capacitor        | 0  | 0.00%   | 0   | 0.00%  |
| Normal Battery Depletion                                       | 90                     | Software/Firmware             | 0  | 0.00%   | 0   | 0.00%  |
| Max. Delivered Energy  | 40 joules              | Mechanical                    | 0  | 0.00%   | 1   | <0.01% |
| Number of US Advisories (see pgs. 206, 207)                    | Three                  | Possible Early Battery Deplet | tion 73                                    | 0.60%   | 673 | 5.49%  |
|  |                        | Other                         | 1  | < 0.01% | 6   | 0.05%  |
|  |                        | Total                         | 78   | 0.64%   | 709 | 5.78%  |



YEARS AFTER IMPLANT

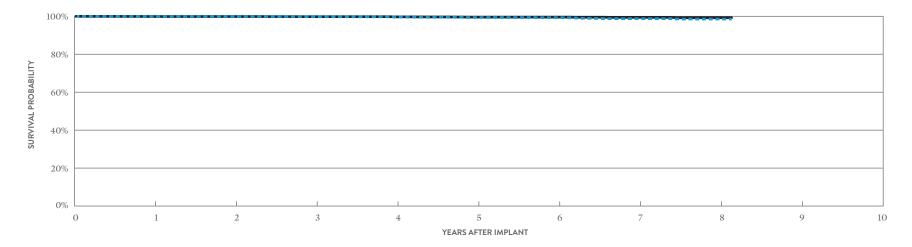
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 122 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.32% | 91.19% | 82.20% | 73.67% | 72.21% | 72.21%        |
| ± 1 STANDARD ERROR   | 0.08%  | 0.30%  | 0.41%  | 0.50%  | 0.52%  | 0.52%         |
| SAMPLE SIZE          | 10,150 | 8,140  | 6,630  | 5,150  | 1,280  | 210           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 122 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.40% | 91.40% | 82.79% | 76.48% | 75.31% | 75.31%        |
| ± 1 STANDARD ERROR   | 0.07%  | 0.29%  | 0.41%  | 0.48%  | 0.50%  | 0.50%         |

| Fortify Assura <sup>™</sup> DR<br>MODEL CD2357-40C* (NON-BA | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |        |
|---|------------------------|----------------------------------|--|---------|-----|--------|
|   |                        |                                  | QTY  | RATE    | QTY | RATE   |
| US Regulatory Approval                                      | June 2013              | Electrical Component             | 2  | 0.02%   | 7   | 0.06%  |
| Registered US Implants                                      | 12,313                 | Electrical Interconnect          | 0  | 0.00%   | 1   | <0.01% |
| Estimated Active US Implants                                | 7,051                  | Battery                          | 0  | 0.00%   | 1   | <0.01% |
| Estimated Longevity   | (see table on page 86) | High Voltage Capacitor           | 1  | < 0.01% | 0   | 0.00%  |
| Normal Battery Depletion                                    | 13                     | Software/Firmware                | 0  | 0.00%   | 2   | 0.02%  |
| Max. Delivered Energy                                       | 40 joules              | Mechanical                       | 0  | 0.00%   | 2   | 0.02%  |
| Number of US Advisories (see pg. 206)                       | One                    | Possible Early Battery Depletion | 0  | 0.00%   | 1   | <0.01% |
|   |                        | Other                            | 0  | 0.00%   | 2   | 0.02%  |
|   |                        | Total                            | 3  | 0.02%   | 16  | 0.13%  |



INCLUDING NORMAL BATTERY DEPLETION

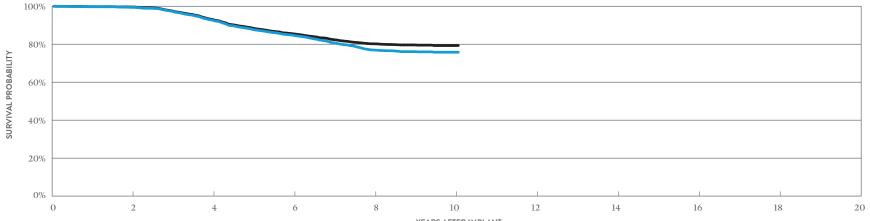
| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 98 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.89% | 99.87% | 99.77% | 99.62% | 99.36% | 99.27% | 98.73% | 98.54% | 98.54%       |
| ±1 STANDARD ERROR    | 0.03%  | 0.03%  | 0.05%  | 0.06%  | 0.10%  | 0.11%  | 0.17%  | 0.21%  | 0.21%        |
| SAMPLE SIZE          | 11,250 | 9,360  | 7,800  | 6,450  | 5,350  | 4,320  | 2,920  | 1,180  | 230          |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 98 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.89% | 99.87% | 99.80% | 99.71% | 99.56% | 99.56% | 99.43% | 99.24% | 99.24%       |
| ± 1 STANDARD ERROR   | 0.03%  | 0.03%  | 0.05%  | 0.05%  | 0.08%  | 0.08%  | 0.10%  | 0.17%  | 0.17%        |

\*Parylene coating.

| Fortify Assura <sup>™</sup> DR<br>MODEL CD2357-40C* (BATTERY | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|--|------------------------|----------------------------------|--|-------|-----|-------|
|  |                        |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval                                       | June 2013              | Electrical Component             | 3  | 0.04% | 2   | 0.03% |
| Registered US Implants                                       | 6,956                  | Electrical Interconnect          | 2  | 0.03% | 1   | 0.01% |
| Estimated Active US Implants                                 | 2,355                  | Battery                          | 1  | 0.01% | 6   | 0.09% |
| Estimated Longevity  | (see table on page 86) | High Voltage Capacitor           | 0  | 0.00% | 0   | 0.00% |
| Normal Battery Depletion                                     | 60                     | Software/Firmware                | 0  | 0.00% | 0   | 0.00% |
| Max. Delivered Energy  | 40 joules              | Mechanical                       | 0  | 0.00% | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)                  | Three                  | Possible Early Battery Depletion | 33   | 0.47% | 309 | 4.44% |
|  |                        | Other                            | 2  | 0.03% | 2   | 0.03% |
|  |                        | Total                            | 41   | 0.59% | 320 | 4.60% |



YEARS AFTER IMPLANT

### INCLUDING NORMAL BATTERY DEPLETION

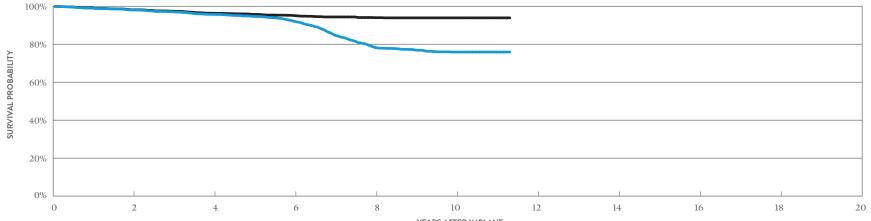
| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 121 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.41% | 92.67% | 84.72% | 76.92% | 75.80% | 75.80%        |
| ± 1 STANDARD ERROR   | 0.09%  | 0.36%  | 0.52%  | 0.64%  | 0.68%  | 0.68%         |
| SAMPLE SIZE          | 5,740  | 4,570  | 3,720  | 2,870  | 820    | 240           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 121 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.58% | 93.06% | 85.51% | 80.24% | 79.31% | 79.31%        |
| ± 1 STANDARD ERROR   | 0.07%  | 0.35%  | 0.51%  | 0.60%  | 0.64%  | 0.64%         |

\*Parylene coating.

| Ellipse™ DR<br>MODEL CD2311-36Q*            | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISE<br>THERAPY |       |     |       |
|---|------------------------|----------------------------------|---|-------|-----|-------|
|   |                        |                                  | QTY                                       | RATE  | QTY | RATE  |
| US Regulatory Approval                      | May 2012               | Electrical Component             | 3   | 0.05% | 11  | 0.19% |
| Registered US Implants                      | 5,900                  | Electrical Interconnect          | 0   | 0.00% | 0   | 0.00% |
| Estimated Active US Implants                | 1,347                  | Battery                          | 0   | 0.00% | 1   | 0.02% |
| Estimated Longevity                         | (see table on page 86) | High Voltage Capacitor           | 65  | 1.10% | 14  | 0.24% |
| Normal Battery Depletion                    | 234                    | Software/Firmware                | 1   | 0.02% | 0   | 0.00% |
| Max. Delivered Energy                       | 36 joules              | Mechanical                       | 2   | 0.03% | 3   | 0.05% |
| Number of US Advisories (see pgs. 206, 208) | Two                    | Possible Early Battery Depletion | 0   | 0.00% | 0   | 0.00% |
|   |                        | Other                            | 5   | 0.08% | 3   | 0.05% |
|   |                        | Total                            | 76  | 1.29% | 32  | 0.54% |



YEARS AFTER IMPLANT

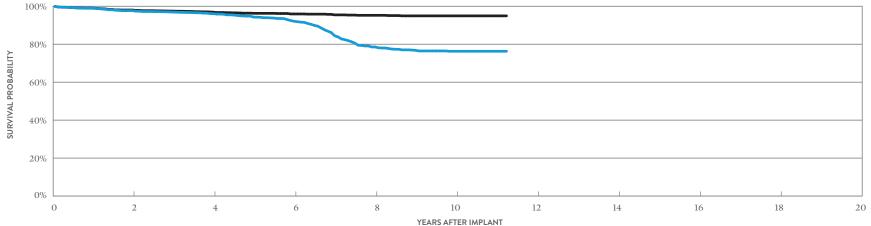
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 136 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.02% | 95.73% | 92.06% | 78.28% | 75.89% | 75.89%        |
| ± 1 STANDARD ERROR   | 0.19%  | 0.29%  | 0.41%  | 0.69%  | 0.75%  | 0.75%         |
| SAMPLE SIZE          | 4,940  | 4,060  | 3,380  | 2,550  | 1,550  | 230           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 136 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.17% | 96.33% | 95.10% | 93.99% | 93.90% | 93.90%        |
| ± 1 STANDARD ERROR   | 0.18%  | 0.27%  | 0.32%  | 0.37%  | 0.38%  | 0.38%         |

| Ellipse™ DR<br>MODEL CD2311-36              | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | W/O COM | NCTIONS<br>PROMISED<br>RAPY |     |       |
|---|------------------------|----------------------------------|---------|-----------------------------|-----|-------|
|   |                        |                                  | QTY     | RATE                        | QTY | RATE  |
| US Regulatory Approval                      | May 2012               | Electrical Component             | 5       | 0.13%                       | 9   | 0.24% |
| Registered US Implants                      | 3,748                  | Electrical Interconnect          | 0       | 0.00%                       | 0   | 0.00% |
| Estimated Active US Implants                | 943                    | Battery                          | 0       | 0.00%                       | 0   | 0.00% |
| Estimated Longevity                         | (see table on page 86) | High Voltage Capacitor           | 22      | 0.59%                       | 8   | 0.21% |
| Normal Battery Depletion                    | 157                    | Software/Firmware                | 0       | 0.00%                       | 0   | 0.00% |
| Max. Delivered Energy                       | 36 joules              | Mechanical                       | 4       | 0.11%                       | 3   | 0.08% |
| Number of US Advisories (see pgs. 206, 208) | Two                    | Possible Early Battery Depletion | 0       | 0.00%                       | 2   | 0.05% |
|   |                        | Other                            | 5       | 0.13%                       | 2   | 0.05% |
|   |                        | Total                            | 36      | 0.96%                       | 24  | 0.64% |



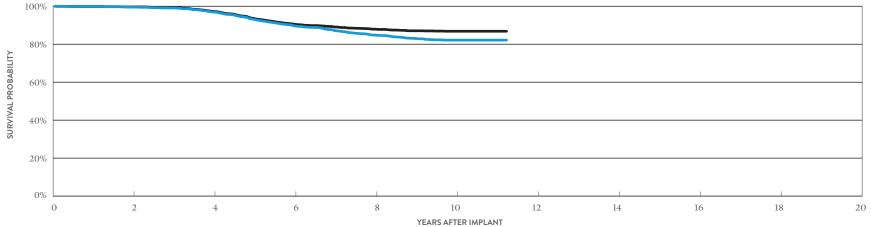
### INCLUDING NORMAL BATTERY DEPLETION -

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 135 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 97.68% | 96.09% | 92.09% | 78.57% | 76.30% | 76.30%        |
| ± 1 STANDARD ERROR   | 0.26%  | 0.35%  | 0.52%  | 0.88%  | 0.93%  | 0.93%         |
| SAMPLE SIZE          | 3,100  | 2,480  | 2,080  | 1,610  | 1,020  | 220           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 135 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.02% | 96.91% | 95.95% | 95.24% | 94.95% | 94.95%        |
| ± 1 STANDARD ERROR   | 0.24%  | 0.31%  | 0.37%  | 0.42%  | 0.44%  | 0.44%         |

| Fortify Assura™ DR<br>model cd2257-40Q* (battery advisory population) |                        |  |                                  |     | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |
|---|------------------------|--|----------------------------------|-----|-----------------------------|--|-------|
|   |                        |  |                                  | QTY | RATE                        | QTY  | RATE  |
| US Regulatory Approval  | May 2012               |  | Electrical Component             | 5   | 0.07%                       | 3  | 0.04% |
| Registered US Implants  | 6,797                  |  | Electrical Interconnect          | 0   | 0.00%                       | 0  | 0.00% |
| Estimated Active US Implants  | 1,704                  |  | Battery                          | 1   | 0.01%                       | 2  | 0.03% |
| Estimated Longevity   | (see table on page 86) |  | High Voltage Capacitor           | 0   | 0.00%                       | 0  | 0.00% |
| Normal Battery Depletion  | 68                     |  | Software/Firmware                | 0   | 0.00%                       | 1  | 0.01% |
| Max. Delivered Energy   | 40 joules              |  | Mechanical                       | 0   | 0.00%                       | 1  | 0.01% |
| Number of US Advisories (see pgs. 206, 207)                           | Three                  |  | Possible Early Battery Depletion | 27  | 0.40%                       | 174  | 2.56% |
|   |                        |  | Other                            | 3   | 0.04%                       | 1  | 0.01% |
|   |                        |  | Total                            | 36  | 0.53%                       | 182  | 2.68% |



| YEARS AFTER IMPLA | N. |
|-------------------|----|
|-------------------|----|

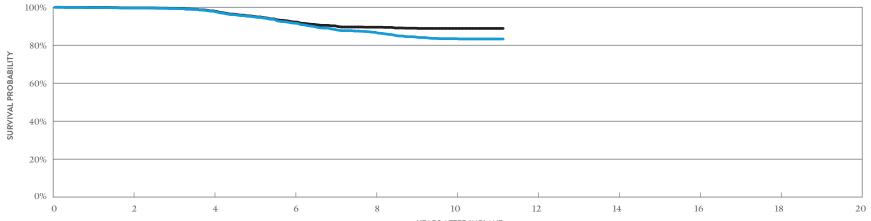
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 135 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.63% | 96.95% | 89.70% | 84.82% | 82.17% | 82.17%        |
| ± 1 STANDARD ERROR   | 0.08%  | 0.24%  | 0.45%  | 0.57%  | 0.62%  | 0.62%         |
| SAMPLE SIZE          | 5,680  | 4,550  | 3,660  | 2,990  | 2,000  | 230           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 135 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.72% | 97.27% | 90.54% | 87.95% | 86.84% | 86.84%        |
| ± 1 STANDARD ERROR   | 0.07%  | 0.23%  | 0.44%  | 0.51%  | 0.54%  | 0.54%         |

| Fortify Assura <sup>™</sup> DR<br>MODEL CD2257-40 (BATTERY AD | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|---|------------------------|----------------------------------|--|-------|-----|-------|
|   |                        |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval  | May 2012               | Electrical Component             | 2  | 0.05% | 1   | 0.02% |
| Registered US Implants  | 4,235                  | Electrical Interconnect          | 0  | 0.00% | 0   | 0.00% |
| Estimated Active US Implants                                  | 1,077                  | Battery                          | 1  | 0.02% | 4   | 0.09% |
| Estimated Longevity   | (see table on page 86) | High Voltage Capacitor           | 1  | 0.02% | 0   | 0.00% |
| Normal Battery Depletion                                      | 45                     | Software/Firmware                | 0  | 0.00% | 1   | 0.02% |
| Max. Delivered Energy   | 40 joules              | Mechanical                       | 0  | 0.00% | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)                   | Three                  | Possible Early Battery Depletion | 13   | 0.31% | 81  | 1.91% |
|   |                        | Other                            | 0  | 0.00% | 4   | 0.09% |
|   |                        | Total                            | 17   | 0.40% | 91  | 2.15% |





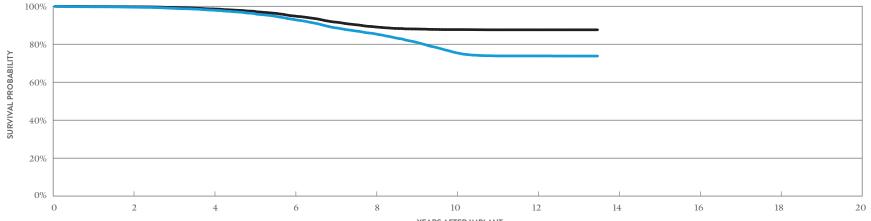
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 134 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.61% | 97.91% | 91.61% | 86.79% | 83.47% | 83.30%        |
| ± 1 STANDARD ERROR   | 0.10%  | 0.26%  | 0.55%  | 0.70%  | 0.80%  | 0.81%         |
| SAMPLE SIZE          | 3,470  | 2,710  | 2,150  | 1,750  | 1,200  | 200           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 134 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.72% | 98.09% | 92.25% | 89.50% | 88.85% | 88.85%        |
| ± 1 STANDARD ERROR   | 0.09%  | 0.25%  | 0.53%  | 0.63%  | 0.66%  | 0.66%         |

| Fortify <sup>™</sup> DR<br>MODEL CD2231-40Q* (BATTERY A | )N)                    | W/ COMP                          | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |     |         |
|---|------------------------|----------------------------------|-----------------------------|--|-----|---------|
|   |                        |                                  | QTY                         | RATE                                       | QTY | RATE    |
| US Regulatory Approval                                  | May 2010               | Electrical Component             | 10                          | 0.04%                                      | 11  | 0.04%   |
| Registered US Implants                                  | 27,257                 | Electrical Interconnect          | 3                           | 0.01%                                      | 2   | < 0.01% |
| Estimated Active US Implants                            | 4,987                  | Battery                          | 29                          | 0.11%                                      | 55  | 0.20%   |
| Estimated Longevity                                     | (see table on page 86) | High Voltage Capacitor           | 5                           | 0.02%                                      | 2   | <0.01%  |
| Normal Battery Depletion                                | 689                    | Software/Firmware                | 1                           | < 0.01%                                    | 2   | <0.01%  |
| Max. Delivered Energy                                   | 40 joules              | Mechanical                       | 0                           | 0.00%                                      | 0   | 0.00%   |
| Number of US Advisories (see pgs. 206, 207)             | Three                  | Possible Early Battery Depletion | 166                         | 0.61%                                      | 408 | 1.50%   |
|   |                        | Other                            | 17                          | 0.06%                                      | 13  | 0.05%   |
|   |                        | Total                            | 231                         | 0.85%                                      | 493 | 1.81%   |



YEARS AFTER IMPLANT

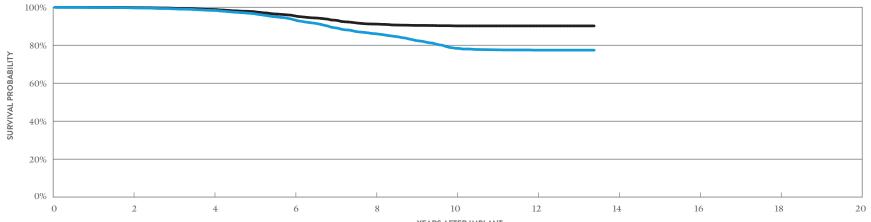
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 162 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.52% | 97.94% | 93.02% | 85.49% | 75.53% | 73.85% | 73.79%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.10%  | 0.19%  | 0.28%  | 0.37%  | 0.39%  | 0.40%         |
| SAMPLE SIZE          | 22,470 | 18,270 | 14,640 | 11,680 | 8,360  | 4,480  | 280           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 162 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.75% | 98.60% | 94.88% | 89.14% | 87.72% | 87.61% | 87.61%        |
| ±1 STANDARD ERROR    | 0.03%  | 0.08%  | 0.17%  | 0.25%  | 0.28%  | 0.28%  | 0.28%         |

| Fortify <sup>™</sup> DR<br>MODEL CD2231-40 (BATTERY AD) | °ortify™ DR<br>AODEL CD2231-40 (BATTERY ADVISORY POPULATION) |                                  |     |         |     |         |
|---|--|----------------------------------|-----|---------|-----|---------|
|   |  |                                  | QTY | RATE    | QTY | RATE    |
| US Regulatory Approval                                  | May 2010   | Electrical Component             | 9   | 0.07%   | 3   | 0.02%   |
| Registered US Implants                                  | 12,267   | Electrical Interconnect          | 1   | < 0.01% | 0   | 0.00%   |
| Estimated Active US Implants                            | 2,416  | Battery                          | 5   | 0.04%   | 9   | 0.07%   |
| Estimated Longevity                                     | (see table on page 86)                                       | High Voltage Capacitor           | 8   | 0.07%   | 2   | 0.02%   |
| Normal Battery Depletion                                | 277  | Software/Firmware                | 0   | 0.00%   | 1   | <0.01%  |
| Max. Delivered Energy                                   | 40 joules  | Mechanical                       | 0   | 0.00%   | 1   | < 0.01% |
| Number of US Advisories (see pgs. 206, 207)             | Three  | Possible Early Battery Depletion | 60  | 0.49%   | 140 | 1.14%   |
|   |  | Other                            | 5   | 0.04%   | 5   | 0.04%   |
|   |  | Total                            | 88  | 0.72%   | 161 | 1.31%   |



YEARS AFTER IMPLANT

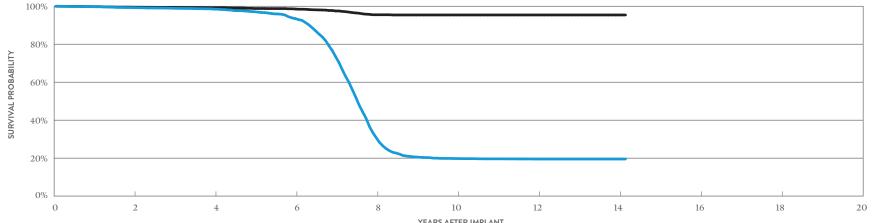
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 161 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.67% | 98.32% | 93.41% | 86.10% | 78.36% | 77.42% | 77.42%        |
| ± 1 STANDARD ERROR   | 0.05%  | 0.14%  | 0.28%  | 0.43%  | 0.55%  | 0.57%  | 0.57%         |
| SAMPLE SIZE          | 9,920  | 7,840  | 6,190  | 4,910  | 3,610  | 2,040  | 250           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 161 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.86% | 98.84% | 95.52% | 91.15% | 90.19% | 90.19% | 90.19%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.12%  | 0.24%  | 0.36%  | 0.38%  | 0.39%  | 0.39%         |

| Current™ + DR<br>MODEL CD2211-36Q*    | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|---------------------------------------|------------------------|----------------------------------|--|-------|-----|-------|
|                                       |                        |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval                | February 2009          | Electrical Component             | 6  | 0.07% | 7   | 0.08% |
| Registered US Implants                | 8,981                  | Electrical Interconnect          | 0  | 0.00% | 0   | 0.00% |
| Estimated Active US Implants          | 1,026                  | Battery                          | 7  | 0.08% | 10  | 0.11% |
| Estimated Longevity                   | (see table on page 86) | High Voltage Capacitor           | 3  | 0.03% | 0   | 0.00% |
| Normal Battery Depletion              | 1,695                  | Software/Firmware                | 1  | 0.01% | 25  | 0.28% |
| Max. Delivered Energy                 | 36 joules              | Mechanical                       | 0  | 0.00% | 2   | 0.02% |
| Number of US Advisories (see pg. 206) | One                    | Possible Early Battery Depletion | 4  | 0.04% | 4   | 0.04% |
|                                       |                        | Other                            | 6  | 0.07% | 7   | 0.08% |
|                                       |                        | Total                            | 27   | 0.30% | 55  | 0.61% |



YEARS AFTER IMPLANT

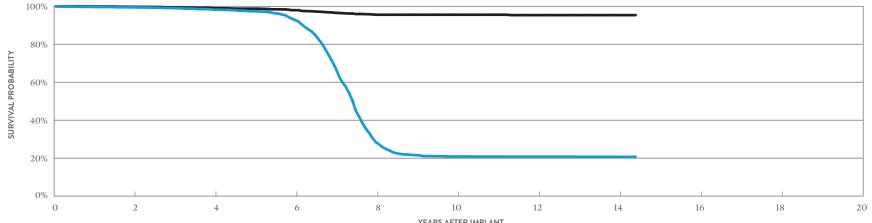
### **INCLUDING NORMAL BATTERY DEPLETION**

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 170 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.28% | 98.47% | 93.51% | 30.89% | 19.80% | 19.54% | 19.54% | 19.54%        |
| ± 1 STANDARD ERROR   | 0.09%  | 0.14%  | 0.33%  | 0.64%  | 0.51%  | 0.51%  | 0.51%  | 0.51%         |
| SAMPLE SIZE          | 7,330  | 5,900  | 4,770  | 2,840  | 1,460  | 1,220  | 660    | 240           |

| EXCLUDING | NORMAL BA | ITERY DEP |  |
|-----------|-----------|-----------|--|
|           |           |           |  |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 170 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.53% | 99.18% | 98.56% | 95.53% | 95.42% | 95.42% | 95.42% | 95.42%        |
| ± 1 STANDARD ERROR   | 0.08%  | 0.11%  | 0.15%  | 0.34%  | 0.35%  | 0.35%  | 0.35%  | 0.35%         |

| Current™ + DR<br>MODEL CD2211-36      | W/ COMP                | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|---------------------------------------|------------------------|----------------------------------|--|-------|-----|-------|
|                                       |                        |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval                | February 2009          | Electrical Component             | 3  | 0.05% | 2   | 0.03% |
| Registered US Implants                | 6,387                  | Electrical Interconnect          | 2  | 0.03% | 0   | 0.00% |
| Estimated Active US Implants          | 763                    | Battery                          | 8  | 0.13% | 4   | 0.06% |
| Estimated Longevity                   | (see table on page 86) | High Voltage Capacitor           | 1  | 0.02% | 0   | 0.00% |
| Normal Battery Depletion              | 1,145                  | Software/Firmware                | 1  | 0.02% | 18  | 0.28% |
| Max. Delivered Energy                 | 36 joules              | Mechanical                       | 0  | 0.00% | 1   | 0.02% |
| Number of US Advisories (see pg. 206) | One                    | Possible Early Battery Depletion | 9  | 0.14% | 4   | 0.06% |
|                                       |                        | Other                            | 7  | 0.11% | 3   | 0.05% |
|                                       |                        | Total                            | 31   | 0.49% | 32  | 0.50% |



YEARS AFTER IMPLANT

### INCLUDING NORMAL BATTERY DEPLETION -

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 173 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.45% | 98.20% | 92.72% | 28.30% | 20.85% | 20.76% | 20.70% | 20.70%        |
| ± 1 STANDARD ERROR   | 0.10%  | 0.18%  | 0.41%  | 0.74%  | 0.63%  | 0.63%  | 0.62%  | 0.62%         |
| SAMPLE SIZE          | 5,140  | 4,070  | 3,230  | 1,860  | 1,040  | 870    | 540    | 240           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 173 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.73% | 98.93% | 97.94% | 95.54% | 95.54% | 95.33% | 95.33% | 95.33%        |
| ±1 STANDARD ERROR    | 0.07%  | 0.14%  | 0.23%  | 0.38%  | 0.39%  | 0.42%  | 0.42%  | 0.42%         |

BATTERY LONGEVITY SUMMARY Dual-Chamber Implantable Cardioverter Defibrillator (ICD) Devices

Battery Longevity (years)

| MODELS     | FAMILY                        | NO<br>PACING | 25%<br>PACING | 50%<br>PACING | 100%<br>PACING |
|------------|-------------------------------|--------------|---------------|---------------|----------------|
| CDDRA500Q  | Gallant DR†                   | 10.6         | 9.9           | 9.3           | 8.2            |
| CD2411-36Q | Ellipse DR*                   | 10.4         | 9.6           | 8.9           | 7.7            |
| CD2411-36C | Ellipse DR*                   | 10.4         | 9.6           | 8.9           | 7.7            |
| CD2357-40Q | Fortify Assura" DR**          | 11.1         | 10.2          | 9.5           | 8.3            |
| CD2357-40C | Fortify Assura" DR**          | 11.1         | 10.2          | 9.5           | 8.3            |
| CD2311-36Q | Ellipse DR*                   | 10.4         | 9.6           | 8.9           | 7.7            |
| CD2311-36  | Ellipse DR*                   | 10.4         | 9.6           | 8.9           | 7.7            |
| CD2257-40Q | Fortify Assura" DR**          | 11.1         | 10.2          | 9.5           | 8.3            |
| CD2257-40  | Fortify Assura DR**           | 11.1         | 10.2          | 9.5           | 8.3            |
| CD2231-40Q | Fortify DR**                  | 10.1         | 9.3           | 8.6           | 7.5            |
| CD2231-40  | Fortify DR**                  | 10.1         | 9.3           | 8.6           | 7.5            |
| CD2211-36Q | Current <sup>**</sup> + DR*** | 8.2          | 7.5           | 7.0           | 6.1            |
| CD2211-36  | Current <sup>**</sup> + DR*** | 8.2          | 7.5           | 7.0           | 6.1            |

Pacing parameters: DDD, 2.5V, 0.5 ms, 60 ppm, 500 ohms

\* Battery voltage range 3.20-2.59. Two maximum charges per year.

\*\* Battery voltage range 3.20-2.59. Three maximum charges per year.

\*\*\* Battery voltage range: 3.20-2.45. Four maximum charges per year as well as monthly charging during the battery's mid-life voltage range.

+Capacitor maintenance interval: 1 charge per every 9 months

SUMMARY INFORMATION Dual-Chamber Implantable Cardioverter Defibrillator (ICD) Devices

Survival Probability Summary

## INCLUDING NORMAL BATTERY DEPLETION

| MODELS     | FAMILY                                  | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| CDDRA500Q  | Gallant" DR*                            | 99.92% | 99.83% | 99.83% |        |        |        |        |        |        |         |
| CD2411-36Q | Ellipse" DR                             | 99.88% | 99.85% | 99.75% | 99.68% | 99.49% | 99.16% | 96.75% | 89.49% | 88.65% | 88.46%  |
| CD2411-36C | Ellipse" DR                             | 99.80% | 99.74% | 99.72% | 99.50% | 99.19% | 98.74% | 95.70% | 84.81% | 84.23% | 84.23%  |
| CD2357-40Q | Fortify Assura" DR                      | 99.86% | 99.79% | 99.74% | 99.64% | 99.40% | 99.10% | 98.86% | 98.35% |        |         |
| CD2357-40Q | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 99.79% | 99.32% | 96.48% | 91.19% | 85.84% | 82.20% | 78.17% | 73.67% | 72.49% | 72.21%  |
| CD2357-40C | Fortify Assura" DR                      | 99.89% | 99.87% | 99.77% | 99.62% | 99.36% | 99.27% | 98.73% | 98.54% |        |         |
| CD2357-40C | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 99.72% | 99.41% | 97.41% | 92.67% | 87.80% | 84.72% | 80.69% | 76.92% | 76.11% | 75.80%  |
| CD2311-36Q | Ellipse" DR                             | 99.04% | 98.02% | 97.10% | 95.73% | 94.64% | 92.06% | 84.75% | 78.28% | 76.91% | 75.89%  |
| CD2311-36  | Ellipse" DR                             | 98.94% | 97.68% | 96.95% | 96.09% | 94.28% | 92.09% | 84.46% | 78.57% | 76.79% | 76.30%  |
| CD2257-40Q | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 99.87% | 99.63% | 99.11% | 96.95% | 93.13% | 89.70% | 87.18% | 84.82% | 83.05% | 82.17%  |
| CD2257-40  | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 99.84% | 99.61% | 99.35% | 97.91% | 94.97% | 91.61% | 88.33% | 86.79% | 84.37% | 83.47%  |
| CD2231-40Q | Fortify" $\mathrm{DR}^{\dagger}$        | 99.72% | 99.52% | 98.91% | 97.94% | 96.22% | 93.02% | 88.69% | 85.49% | 81.13% | 75.53%  |
| CD2231-40  | Fortify" $\mathbf{DR}^{\dagger}$        | 99.88% | 99.67% | 99.16% | 98.32% | 96.65% | 93.41% | 89.22% | 86.10% | 82.52% | 78.36%  |
| CD2211-36Q | Current" + DR                           | 99.76% | 99.28% | 98.93% | 98.47% | 97.12% | 93.51% | 73.48% | 30.89% | 20.59% | 19.80%  |
| CD2211-36  | Current" + DR                           | 99.66% | 99.45% | 99.08% | 98.20% | 97.39% | 92.72% | 67.42% | 28.30% | 21.57% | 20.85%  |

*†Premature battery depletion advisory population.* 

Survival Probability Summary

## **EXCLUDING NORMAL BATTERY DEPLETION**

| MODELS     | FAMILY                                  | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| CDDRA500Q  | Gallant" DR*                            | 99.93% | 99.84% | 99.84% |        |        |        |        |        |        |         |
| CD2411-36Q | Ellipse" DR                             | 99.90% | 99.86% | 99.83% | 99.80% | 99.77% | 99.77% | 99.70% | 99.63% | 99.57% | 99.57%  |
| CD2411-36C | Ellipse" DR                             | 99.84% | 99.78% | 99.78% | 99.63% | 99.57% | 99.49% | 99.31% | 99.01% | 98.90% | 98.90%  |
| CD2357-40Q | Fortify Assura" DR                      | 99.88% | 99.82% | 99.76% | 99.72% | 99.67% | 99.65% | 99.65% | 99.65% |        |         |
| CD2357-40Q | Fortify Assura $\operatorname{``DR}^+$  | 99.84% | 99.40% | 96.62% | 91.40% | 86.13% | 82.79% | 79.28% | 76.48% | 75.47% | 75.31%  |
| CD2357-40C | Fortify Assura" DR                      | 99.89% | 99.87% | 99.80% | 99.71% | 99.56% | 99.56% | 99.43% | 99.24% |        |         |
| CD2357-40C | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 99.80% | 99.58% | 97.61% | 93.06% | 88.48% | 85.51% | 82.42% | 80.24% | 79.64% | 79.31%  |
| CD2311-36Q | Ellipse" DR                             | 99.13% | 98.17% | 97.42% | 96.33% | 95.70% | 95.10% | 94.37% | 93.99% | 93.90% | 93.90%  |
| CD2311-36  | Ellipse" DR                             | 99.02% | 98.02% | 97.46% | 96.91% | 96.28% | 95.95% | 95.47% | 95.24% | 94.95% | 94.95%  |
| CD2257-40Q | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 99.87% | 99.72% | 99.33% | 97.27% | 93.60% | 90.54% | 89.08% | 87.95% | 87.09% | 86.84%  |
| CD2257-40  | Fortify Assura" $\mathrm{DR}^+$         | 99.90% | 99.72% | 99.46% | 98.09% | 95.23% | 92.25% | 90.25% | 89.50% | 88.98% | 88.85%  |
| CD2231-40Q | Fortify" $\mathrm{DR}^{\dagger}$        | 99.86% | 99.75% | 99.31% | 98.60% | 97.39% | 94.88% | 91.69% | 89.14% | 88.05% | 87.72%  |
| CD2231-40  | Fortify" $\mathrm{DR}^\dagger$          | 99.95% | 99.86% | 99.48% | 98.84% | 97.72% | 95.52% | 93.21% | 91.15% | 90.44% | 90.19%  |
| CD2211-36Q | Current" + DR                           | 99.82% | 99.53% | 99.38% | 99.18% | 98.82% | 98.56% | 97.52% | 95.53% | 95.42% | 95.42%  |
| CD2211-36  | Current <sup>®</sup> + DR               | 99.86% | 99.73% | 99.44% | 98.93% | 98.74% | 97.94% | 96.54% | 95.54% | 95.54% | 95.54%  |

*†*Premature battery depletion advisory population.

US Malfunction Summary

### WITH COMPROMISED THERAPY

|            |   | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>ONENT |     | TRICAL<br>CONNECT | BAT | TERY   |     | OLTAGE  |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>ETION | от  | HER    | тот | ſAL   |
|------------|---|-------------|----------------------------|-----|-----------------|-----|-------------------|-----|--------|-----|---------|-----|---------------|------|--------|-----|---------------------------|-----|--------|-----|-------|
| MODELS     | FAMILY                                  | US IMPLANTS | ANALYSIS                   | QTY | RATE            | QTY | RATE              | QTY | RATE   | QTY | RATE    | QTY | RATE          | QTY  | RATE   | QTY | RATE                      | QTY | RATE   | QTY | RATE  |
| CDDRA500Q  | Gallant <sup>"</sup> DR                 | 29,048      | 1.50%                      | 0   | 0.00%           | 0   | 0.00%             | 0   | 0.00%  | 0   | 0.00%   | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 0   | 0.00%  | 0   | 0.00% |
| CD2411-36Q | Ellipse" DR                             | 33,978      | 6.50%                      | 3   | <0.01%          | 1   | <0.01%            | 0   | 0.00%  | 2   | <0.01%  | 1   | < 0.01%       | 1    | <0.01% | 0   | 0.00%                     | 2   | <0.01% | 10  | 0.03% |
| CD2411-36C | Ellipse" DR                             | 12,267      | 9.00%                      | 3   | 0.02%           | 0   | 0.00%             | 0   | 0.00%  | 7   | 0.06%   | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 1   | <0.01% | 11  | 0.09% |
| CD2357-40Q | Fortify Assura" DR                      | 43,189      | 5.40%                      | 3   | <0.01%          | 0   | 0.00%             | 2   | <0.01% | 3   | < 0.01% | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 7   | 0.02%  | 15  | 0.03% |
| CD2357-40Q | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 12,263      | 19.90%                     | 3   | 0.02%           | 1   | < 0.01%           | 0   | 0.00%  | 0   | 0.00%   | 0   | 0.00%         | 0    | 0.00%  | 73  | 0.60%                     | 1   | <0.01% | 78  | 0.64% |
| CD2357-40C | Fortify Assura <sup>®</sup> DR          | 12,313      | 6.50%                      | 2   | 0.02%           | 0   | 0.00%             | 0   | 0.00%  | 1   | <0.01%  | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 0   | 0.00%  | 3   | 0.02% |
| CD2357-40C | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 6,956       | 21.20%                     | 3   | 0.04%           | 2   | 0.03%             | 1   | 0.01%  | 0   | 0.00%   | 0   | 0.00%         | 0    | 0.00%  | 33  | 0.47%                     | 2   | 0.03%  | 41  | 0.59% |
| CD2311-36Q | Ellipse <sup>°</sup> DR                 | 5,900       | 14.70%                     | 3   | 0.05%           | 0   | 0.00%             | 0   | 0.00%  | 65  | 1.10%   | 1   | 0.02%         | 2    | 0.03%  | 0   | 0.00%                     | 5   | 0.08%  | 76  | 1.29% |
| CD2311-36  | Ellipse <sup>®</sup> DR                 | 3,748       | 15.50%                     | 5   | 0.13%           | 0   | 0.00%             | 0   | 0.00%  | 22  | 0.59%   | 0   | 0.00%         | 4    | 0.11%  | 0   | 0.00%                     | 5   | 0.13%  | 36  | 0.96% |
| CD2257-40Q | Fortify Assura" $\mathrm{DR}^+$         | 6,797       | 17.50%                     | 5   | 0.07%           | 0   | 0.00%             | 1   | 0.01%  | 0   | 0.00%   | 0   | 0.00%         | 0    | 0.00%  | 27  | 0.40%                     | 3   | 0.04%  | 36  | 0.53% |
| CD2257-40  | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 4,235       | 19.70%                     | 2   | 0.05%           | 0   | 0.00%             | 1   | 0.02%  | 1   | 0.02%   | 0   | 0.00%         | 0    | 0.00%  | 13  | 0.31%                     | 0   | 0.00%  | 17  | 0.40% |
| CD2231-40Q | Fortify $DR^{\dagger}$                  | 27,257      | 17.40%                     | 10  | 0.04%           | 3   | 0.01%             | 29  | 0.11%  | 5   | 0.02%   | 1   | < 0.01%       | 0    | 0.00%  | 166 | 0.61%                     | 17  | 0.06%  | 231 | 0.85% |
| CD2231-40  | Fortify $DR^{\dagger}$                  | 12,267      | 19.20%                     | 9   | 0.07%           | 1   | <0.01%            | 5   | 0.04%  | 8   | 0.07%   | 0   | 0.00%         | 0    | 0.00%  | 60  | 0.49%                     | 5   | 0.04%  | 88  | 0.72% |
| CD2211-36Q | Current" + DR                           | 8,981       | 29.70%                     | 6   | 0.07%           | 0   | 0.00%             | 7   | 0.08%  | 3   | 0.03%   | 1   | 0.01%         | 0    | 0.00%  | 4   | 0.04%                     | 6   | 0.07%  | 27  | 0.30% |
| CD2211-36  | Current" + DR                           | 6,387       | 30.10%                     | 3   | 0.05%           | 2   | 0.03%             | 8   | 0.13%  | 1   | 0.02%   | 1   | 0.02%         | 0    | 0.00%  | 9   | 0.14%                     | 7   | 0.11%  | 31  | 0.49% |

Definitions of malfunction categories can be found on pages 5-6. †Premature battery depletion advisory population.

US Malfunction Summary

### WITHOUT COMPROMISED THERAPY

|            |   | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | IRICAL<br>ONENT |     | TRICAL<br>CONNECT | BAT | TERY   |     | OLTAGE |     | WARE/<br>WARE | MECH | IANICAL | BAT | LE EARLY<br>TERY<br>.ETION | от  | HER     | тот | TAL   |
|------------|---|-------------|----------------------------|-----|-----------------|-----|-------------------|-----|--------|-----|--------|-----|---------------|------|---------|-----|----------------------------|-----|---------|-----|-------|
| MODELS     | FAMILY                                  | US IMPLANTS | ANALYSIS                   | QTY | RATE            | QTY | RATE              | QTY | RATE   | QTY | RATE   | QTY | RATE          | QTY  | RATE    | QTY | RATE                       | QTY | RATE    | QTY | RATE  |
| CDDRA500Q  | Gallant <sup>®</sup> DR                 | 29,048      | 1.50%                      | 6   | 0.02%           | 0   | 0.00%             | 0   | 0.00%  | 1   | <0.01% | 0   | 0.00%         | 3    | 0.01%   | 0   | 0.00%                      | 3   | 0.01%   | 13  | 0.04% |
| CD2411-36Q | Ellipse" DR                             | 33,978      | 6.50%                      | 12  | 0.04%           | 0   | 0.00%             | 0   | 0.00%  | 2   | <0.01% | 0   | 0.00%         | 4    | 0.01%   | 1   | <0.01%                     | 6   | 0.02%   | 25  | 0.07% |
| CD2411-36C | Ellipse" DR                             | 12,267      | 9.00%                      | 8   | 0.07%           | 0   | 0.00%             | 0   | 0.00%  | 2   | 0.02%  | 0   | 0.00%         | 1    | <0.01%  | 1   | <0.01%                     | 5   | 0.04%   | 17  | 0.14% |
| CD2357-40Q | Fortify Assura" DR                      | 43,189      | 5.40%                      | 16  | 0.04%           | 1   | <0.01%            | 4   | <0.01% | 1   | <0.01% | 0   | 0.00%         | 2    | <0.01%  | 3   | <0.01%                     | 4   | < 0.01% | 31  | 0.07% |
| CD2357-40Q | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 12,263      | 19.90%                     | 10  | 0.08%           | 0   | 0.00%             | 19  | 0.15%  | 0   | 0.00%  | 0   | 0.00%         | 1    | <0.01%  | 673 | 5.49%                      | 6   | 0.05%   | 709 | 5.78% |
| CD2357-40C | Fortify Assura" DR                      | 12,313      | 6.50%                      | 7   | 0.06%           | 1   | <0.01%            | 1   | <0.01% | 0   | 0.00%  | 2   | 0.02%         | 2    | 0.02%   | 1   | <0.01%                     | 2   | 0.02%   | 16  | 0.13% |
| CD2357-40C | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 6,956       | 21.20%                     | 2   | 0.03%           | 1   | 0.01%             | 6   | 0.09%  | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 309 | 4.44%                      | 2   | 0.03%   | 320 | 4.60% |
| CD2311-36Q | Ellipse <sup>"</sup> DR                 | 5,900       | 14.70%                     | 11  | 0.19%           | 0   | 0.00%             | 1   | 0.02%  | 14  | 0.24%  | 0   | 0.00%         | 3    | 0.05%   | 0   | 0.00%                      | 3   | 0.05%   | 32  | 0.54% |
| CD2311-36  | Ellipse <sup>°</sup> DR                 | 3,748       | 15.50%                     | 9   | 0.24%           | 0   | 0.00%             | 0   | 0.00%  | 8   | 0.21%  | 0   | 0.00%         | 3    | 0.08%   | 2   | 0.05%                      | 2   | 0.05%   | 24  | 0.64% |
| CD2257-40Q | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 6,797       | 17.50%                     | 3   | 0.04%           | 0   | 0.00%             | 2   | 0.03%  | 0   | 0.00%  | 1   | 0.01%         | 1    | 0.01%   | 174 | 2.56%                      | 1   | 0.01%   | 182 | 2.68% |
| CD2257-40  | Fortify Assura" $\mathrm{DR}^{\dagger}$ | 4,235       | 19.70%                     | 1   | 0.02%           | 0   | 0.00%             | 4   | 0.09%  | 0   | 0.00%  | 1   | 0.02%         | 0    | 0.00%   | 81  | 1.91%                      | 4   | 0.09%   | 91  | 2.15% |
| CD2231-40Q | Fortify $DR^{\dagger}$                  | 27,257      | 17.40%                     | 11  | 0.04%           | 2   | <0.01%            | 55  | 0.20%  | 2   | <0.01% | 2   | <0.01%        | 0    | 0.00%   | 408 | 1.50%                      | 13  | 0.05%   | 493 | 1.81% |
| CD2231-40  | Fortify $DR^{\dagger}$                  | 12,267      | 19.20%                     | 3   | 0.02%           | 0   | 0.00%             | 9   | 0.07%  | 2   | 0.02%  | 1   | <0.01%        | 1    | <0.01%  | 140 | 1.14%                      | 5   | 0.04%   | 161 | 1.31% |
| CD2211-36Q | Current" + DR                           | 8,981       | 29.70%                     | 7   | 0.08%           | 0   | 0.00%             | 10  | 0.11%  | 0   | 0.00%  | 25  | 0.28%         | 2    | 0.02%   | 4   | 0.04%                      | 7   | 0.08%   | 55  | 0.61% |
| CD2211-36  | Current" + DR                           | 6,387       | 30.10%                     | 2   | 0.03%           | 0   | 0.00%             | 4   | 0.06%  | 0   | 0.00%  | 18  | 0.28%         | 1    | 0.02%   | 4   | 0.06%                      | 3   | 0.05%   | 32  | 0.50% |

Definitions of malfunction categories can be found on pages 5-6. †Premature battery depletion advisory population.

Worldwide Malfunction Summary

## WITH COMPROMISED THERAPY

|            |                                | WORLDWIDE | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>ONENT |     | TRICAL<br>CONNECT | BAT | TERY   |     | OLTAGE |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>ETION | от  | HER   | тот | <b>FAL</b> |
|------------|--------------------------------|-----------|----------------------------|-----|-----------------|-----|-------------------|-----|--------|-----|--------|-----|---------------|------|--------|-----|---------------------------|-----|-------|-----|------------|
| MODELS     | FAMILY                         | SALES     | ANALYSIS                   | QTY | RATE            | QTY | RATE              | QTY | RATE   | QTY | RATE   | QTY | RATE          | QTY  | RATE   | QTY | RATE                      | QTY | RATE  | QTY | RATE       |
| CDDRA500Q  | Gallant <sup>®</sup> DR        | 44,833    | 1.22%                      | 0   | 0.00%           | 0   | 0.00%             | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 0   | 0.00% | 0   | 0.00%      |
| CD2411-36Q | Ellipse" DR                    | 34,585    | 6.60%                      | 6   | 0.02%           | 2   | <0.01%            | 0   | 0.00%  | 2   | <0.01% | 2   | <0.01%        | 2    | <0.01% | 0   | 0.00%                     | 4   | 0.01% | 18  | 0.05%      |
| CD2411-36C | Ellipse" DR                    | 12,396    | 9.45%                      | 6   | 0.05%           | 0   | 0.00%             | 0   | 0.00%  | 7   | 0.06%  | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 2   | 0.02% | 15  | 0.12%      |
| CD2357-40Q | Fortify Assura" DR             | 56,748    | 8.68%                      | 12  | 0.02%           | 2   | <0.01%            | 4   | <0.01% | 3   | <0.01% | 0   | 0.00%         | 0    | 0.00%  | 146 | 0.26%                     | 16  | 0.03% | 183 | 0.32%      |
| CD2357-40C | Fortify Assura <sup>®</sup> DR | 19,458    | 12.22%                     | 10  | 0.05%           | 4   | 0.02%             | 2   | 0.01%  | 1   | <0.01% | 0   | 0.00%         | 0    | 0.00%  | 66  | 0.34%                     | 4   | 0.02% | 87  | 0.45%      |
| CD2311-36Q | Ellipse <sup>-</sup> DR        | 5,881     | 16.20%                     | 6   | 0.10%           | 0   | 0.00%             | 0   | 0.00%  | 65  | 1.11%  | 2   | 0.03%         | 4    | 0.07%  | 0   | 0.00%                     | 10  | 0.17% | 87  | 1.48%      |
| CD2311-36  | Ellipse <sup>-</sup> DR        | 3,749     | 16.40%                     | 10  | 0.27%           | 0   | 0.00%             | 0   | 0.00%  | 22  | 0.59%  | 0   | 0.00%         | 8    | 0.21%  | 0   | 0.00%                     | 10  | 0.27% | 50  | 1.33%      |
| CD2257-40Q | Fortify Assura" DR             | 6,780     | 17.92%                     | 10  | 0.15%           | 0   | 0.00%             | 2   | 0.03%  | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 54  | 0.80%                     | 6   | 0.09% | 72  | 1.06%      |
| CD2257-40  | Fortify Assura <sup>®</sup> DR | 4,234     | 20.22%                     | 4   | 0.09%           | 0   | 0.00%             | 2   | 0.05%  | 1   | 0.02%  | 0   | 0.00%         | 0    | 0.00%  | 26  | 0.61%                     | 0   | 0.00% | 33  | 0.78%      |
| CD2231-40Q | Fortify <sup>-</sup> DR        | 29,172    | 16.80%                     | 22  | 0.08%           | 6   | 0.02%             | 58  | 0.20%  | 5   | 0.02%  | 2   | <0.01%        | 0    | 0.00%  | 344 | 1.18%                     | 34  | 0.12% | 471 | 1.61%      |
| CD2231-40  | Fortify <sup>-</sup> DR        | 18,121    | 13.83%                     | 18  | 0.10%           | 4   | 0.02%             | 10  | 0.06%  | 8   | 0.04%  | 0   | 0.00%         | 0    | 0.00%  | 126 | 0.70%                     | 12  | 0.07% | 178 | 0.98%      |
| CD2211-36Q | Current + DR                   | 15,224    | 18.36%                     | 18  | 0.12%           | 2   | 0.01%             | 18  | 0.12%  | 8   | 0.05%  | 2   | 0.01%         | 0    | 0.00%  | 16  | 0.11%                     | 32  | 0.21% | 96  | 0.63%      |
| CD2211-36  | Current <sup>-</sup> + DR      | 13,483    | 15.20%                     | 16  | 0.12%           | 10  | 0.07%             | 22  | 0.16%  | 4   | 0.03%  | 2   | 0.01%         | 0    | 0.00%  | 24  | 0.18%                     | 20  | 0.15% | 98  | 0.73%      |
|            |                                |           |                            |     |                 |     |                   |     |        |     |        |     |               |      |        |     |                           |     |       |     |            |

Worldwide Malfunction Summary

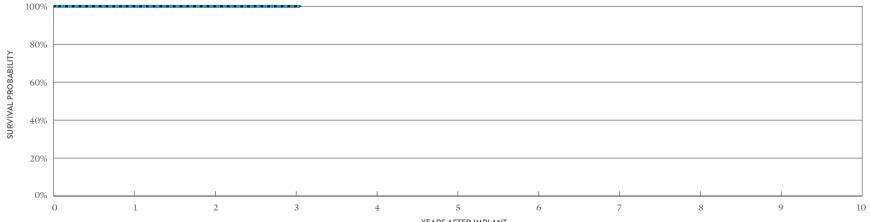
## WITHOUT COMPROMISED THERAPY

|            |                         | WORLDWIDE | PERCENT<br>RETURNED<br>FOR | ELECT<br>COMP | IRICAL<br>ONENT |     | TRICAL<br>CONNECT | BAT | TERY  |     | VOLTAGE |     | WARE/ | MECH | ANICAL | BAT  | LE EARLY<br>TERY<br>.ETION | от  | HER   | тот  | ΓAL   |
|------------|-------------------------|-----------|----------------------------|---------------|-----------------|-----|-------------------|-----|-------|-----|---------|-----|-------|------|--------|------|----------------------------|-----|-------|------|-------|
| MODELS     | FAMILY                  | SALES     | ANALYSIS                   | QTY           | RATE            | QTY | RATE              | QTY | RATE  | QTY | RATE    | QTY | RATE  | QTY  | RATE   | QTY  | RATE                       | QTY | RATE  | QTY  | RATE  |
| CDDRA500Q  | Gallant <sup>¯</sup> DR | 44,833    | 1.22%                      | 14            | 0.03%           | 2   | <0.01%            | 0   | 0.00% | 1   | <0.01%  | 0   | 0.00% | 6    | 0.01%  | 0    | 0.00%                      | 6   | 0.01% | 29   | 0.06% |
| CD2411-36Q | Ellipse <sup>-</sup> DR | 34,585    | 6.60%                      | 24            | 0.07%           | 0   | 0.00%             | 0   | 0.00% | 2   | <0.01%  | 0   | 0.00% | 8    | 0.02%  | 2    | <0.01%                     | 12  | 0.03% | 48   | 0.14% |
| CD2411-36C | Ellipse <sup>-</sup> DR | 12,396    | 9.45%                      | 16            | 0.13%           | 0   | 0.00%             | 0   | 0.00% | 2   | 0.02%   | 0   | 0.00% | 2    | 0.02%  | 2    | 0.02%                      | 10  | 0.08% | 32   | 0.26% |
| CD2357-40Q | Fortify Assura" DR      | 56,748    | 8.68%                      | 52            | 0.09%           | 2   | <0.01%            | 46  | 0.08% | 2   | <0.01%  | 0   | 0.00% | 6    | 0.01%  | 1352 | 2.38%                      | 20  | 0.04% | 1480 | 2.61% |
| CD2357-40C | Fortify Assura" DR      | 19,458    | 12.22%                     | 18            | 0.09%           | 4   | 0.02%             | 14  | 0.07% | 0   | 0.00%   | 4   | 0.02% | 4    | 0.02%  | 620  | 3.19%                      | 10  | 0.05% | 674  | 3.46% |
| CD2311-36Q | Ellipse <sup>-</sup> DR | 5,881     | 16.20%                     | 22            | 0.37%           | 0   | 0.00%             | 2   | 0.03% | 14  | 0.24%   | 0   | 0.00% | 6    | 0.10%  | 0    | 0.00%                      | 6   | 0.10% | 50   | 0.85% |
| CD2311-36  | Ellipse <sup>-</sup> DR | 3,749     | 16.40%                     | 18            | 0.48%           | 0   | 0.00%             | 0   | 0.00% | 8   | 0.21%   | 0   | 0.00% | 6    | 0.16%  | 4    | 0.11%                      | 4   | 0.11% | 40   | 1.07% |
| CD2257-40Q | Fortify Assura" DR      | 6,780     | 17.92%                     | 6             | 0.09%           | 0   | 0.00%             | 4   | 0.06% | 0   | 0.00%   | 2   | 0.03% | 2    | 0.03%  | 348  | 5.13%                      | 2   | 0.03% | 364  | 5.37% |
| CD2257-40  | Fortify Assura" DR      | 4,234     | 20.22%                     | 2             | 0.05%           | 0   | 0.00%             | 8   | 0.19% | 0   | 0.00%   | 2   | 0.05% | 0    | 0.00%  | 162  | 3.83%                      | 8   | 0.19% | 182  | 4.30% |
| CD2231-40Q | Fortify" DR             | 29,172    | 16.80%                     | 28            | 0.10%           | 4   | 0.01%             | 112 | 0.38% | 2   | <0.01%  | 4   | 0.01% | 0    | 0.00%  | 862  | 2.95%                      | 26  | 0.09% | 1038 | 3.56% |
| CD2231-40  | Fortify <sup>-</sup> DR | 18,121    | 13.83%                     | 10            | 0.06%           | 0   | 0.00%             | 18  | 0.10% | 2   | 0.01%   | 2   | 0.01% | 4    | 0.02%  | 314  | 1.73%                      | 10  | 0.06% | 360  | 1.99% |
| CD2211-36Q | Current + DR            | 15,224    | 18.36%                     | 24            | 0.16%           | 0   | 0.00%             | 22  | 0.14% | 2   | 0.01%   | 54  | 0.35% | 6    | 0.04%  | 18   | 0.12%                      | 20  | 0.13% | 146  | 0.96% |
| CD2211-36  | Current + DR            | 13,483    | 15.20%                     | 4             | 0.03%           | 2   | 0.01%             | 8   | 0.06% | 1   | <0.01%  | 40  | 0.30% | 4    | 0.03%  | 10   | 0.07%                      | 14  | 0.10% | 83   | 0.62% |

Definitions of malfunction categories can be found on pages 5-6.

SINGLE-CHAMBER Implantable Cardioverter Defibrillator (ICD) Devices

| Gallant™ VR<br>MODEL CDVRA500Q*    |                         |                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | W/O COM | NCTIONS<br>PROMISED<br>RAPY |
|------------------------------------|-------------------------|----------------------------------|---------|-----------------------------|---------|-----------------------------|
|                                    |                         |                                  | QTY     | RATE                        | QTY     | RATE                        |
| US Regulatory Approval             | June 2020               | Electrical Component             | 0       | 0.00%                       | 0       | 0.00%                       |
| Registered US Implants             | 14,267                  | Electrical Interconnect          | 0       | 0.00%                       | 0       | 0.00%                       |
| Estimated Active US Implants       | 11,983                  | Battery                          | 0       | 0.00%                       | 0       | 0.00%                       |
| Estimated Longevity                | (see table on page 111) | High Voltage Capacitor           | 0       | 0.00%                       | 0       | 0.00%                       |
| Normal Battery Depletion           | 0                       | Software/Firmware                | 0       | 0.00%                       | 0       | 0.00%                       |
| Max. Delivered Energy              | 40 joules               | Mechanical                       | 0       | 0.00%                       | 1       | <0.01%                      |
| Number of US Advisories (page 204) | One                     | Possible Early Battery Depletion | 0       | 0.00%                       | 0       | 0.00%                       |
|                                    |                         | Other                            | 0       | 0.00%                       | 0       | 0.00%                       |
|                                    |                         | Total                            | 0       | 0.00%                       | 1       | <0.01%                      |





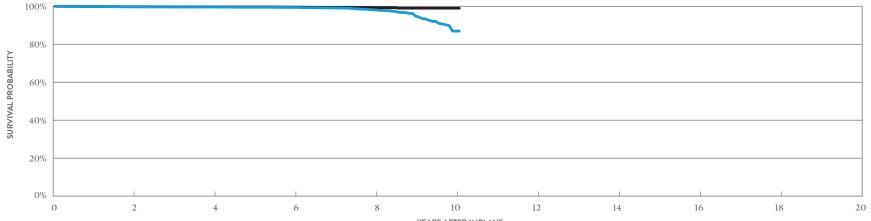
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | AT 37 MONTHS |
|----------------------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.98% | 99.98% | 99.98% | 99.98%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.01%  | 0.01%  | 0.01%        |
| SAMPLE SIZE          | 11,000 | 5,470  | 1,710  | 220          |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | AT 37 MONTHS |
|----------------------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.98% | 99.98% | 99.98% | 99.98%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.01%  | 0.01%  | 0.01%        |

| Ellipse™ VR<br>MODEL CD1411-36Q* |                         |                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | W/O COM | ICTIONS<br>PROMISED<br>RAPY |
|----------------------------------|-------------------------|----------------------------------|---------|-----------------------------|---------|-----------------------------|
|                                  |                         |                                  | QTY     | RATE                        | QTY     | RATE                        |
| US Regulatory Approval           | June 2013               | Electrical Component             | 5       | 0.02%                       | 8       | 0.03%                       |
| Registered US Implants           | 24,130                  | Electrical Interconnect          | 0       | 0.00%                       | 0       | 0.00%                       |
| Estimated Active US Implants     | 12,627                  | Battery                          | 0       | 0.00%                       | 2       | <0.01%                      |
| Estimated Longevity              | (see table on page 111) | High Voltage Capacitor           | 10      | 0.04%                       | 6       | 0.02%                       |
| Normal Battery Depletion         | 78                      | Software/Firmware                | 0       | 0.00%                       | 1       | < 0.01%                     |
| Max. Delivered Energy            | 36 joules               | Mechanical                       | 0       | 0.00%                       | 3       | 0.01%                       |
| Number of US Advisories          |                         | Possible Early Battery Depletion | 0       | 0.00%                       | 2       | < 0.01%                     |
| (see pgs. 205, 206, 208)         | Three                   | Other                            | 2       | < 0.01%                     | 5       | 0.02%                       |
|                                  |                         | Total                            | 17      | 0.07%                       | 27      | 0.11%                       |



YEARS AFTER IMPLANT

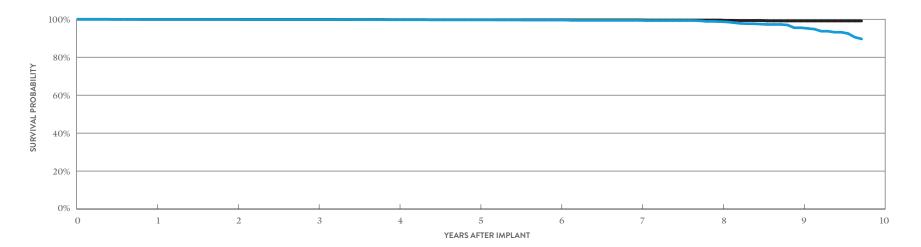
INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 121 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.68% | 99.60% | 99.37% | 98.12% | 86.93% | 86.93%        |
| ±1 STANDARD ERROR    | 0.04%  | 0.04%  | 0.06%  | 0.17%  | 1.23%  | 1.23%         |
| SAMPLE SIZE          | 19,850 | 14,780 | 9,040  | 4,320  | 810    | 230           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 121 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.79% | 99.72% | 99.56% | 99.27% | 98.98% | 98.98%        |
| ±1 STANDARD ERROR    | 0.03%  | 0.04%  | 0.05%  | 0.09%  | 0.15%  | 0.15%         |

| Ellipse™ VR<br>MODEL CD1411-36C* | W/ COMP                  | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|----------------------------------|--------------------------|----------------------------------|--|-------|-----|-------|
|                                  |                          |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval           | June 2013                | Electrical Component             | 0  | 0.00% | 6   | 0.08% |
| Registered US Implants           | 7,486                    | Electrical Interconnect          | 0  | 0.00% | 0   | 0.00% |
| Estimated Active US Implants     | 3,717                    | Battery                          | 0  | 0.00% | 0   | 0.00% |
| Estimated Longevity              | (see table on page 111)  | High Voltage Capacitor           | 0  | 0.00% | 1   | 0.01% |
| Normal Battery Depletion         | 29                       | Software/Firmware                | 0  | 0.00% | 0   | 0.00% |
| Max. Delivered Energy            | 36 joules                | Mechanical                       | 0  | 0.00% | 1   | 0.01% |
| Number of US Advisories          | ml                       | Possible Early Battery Depletion | 0  | 0.00% | 1   | 0.01% |
| (see pgs. 205, 206, 208)         | gs. 205, 206, 208) Three |                                  | 0  | 0.00% | 2   | 0.03% |
|                                  |                          | Total                            | 0  | 0.00% | 11  | 0.15% |



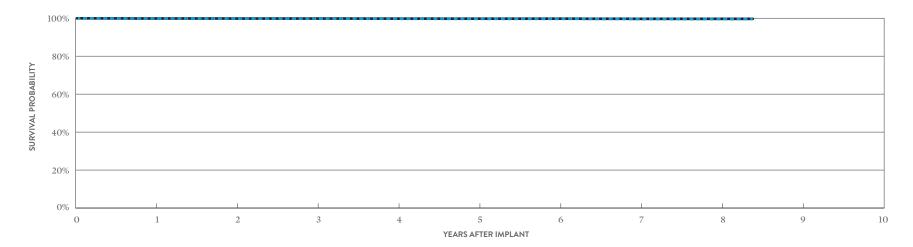
INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 117 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.94% | 99.91% | 99.87% | 99.75% | 99.70% | 99.59% | 99.42% | 98.75% | 95.54% | 89.64%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.04%  | 0.04%  | 0.07%  | 0.07%  | 0.09%  | 0.12%  | 0.21%  | 0.64%  | 1.35%         |
| SAMPLE SIZE          | 6,980  | 6,120  | 5,440  | 4,850  | 4,230  | 3,420  | 2,550  | 1,780  | 990    | 220           |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 117 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.94% | 99.94% | 99.91% | 99.82% | 99.78% | 99.78% | 99.71% | 99.61% | 99.10% | 99.10%        |
| ±1 STANDARD ERROR    | 0.03%  | 0.03%  | 0.04%  | 0.06%  | 0.07%  | 0.07%  | 0.08%  | 0.11%  | 0.24%  | 0.24%         |

\*Parylene coating.

| Fortify Assura™ VR<br>MODEL CD1357-40Q* (NON-BAT | W/ COMP                 | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |        |
|--|-------------------------|----------------------------------|--|---------|-----|--------|
|  |                         |                                  | QTY  | RATE    | QTY | RATE   |
| US Regulatory Approval                           | June 2013               | Electrical Component             | 2  | <0.01%  | 7   | 0.03%  |
| Registered US Implants                           | 26,154                  | Electrical Interconnect          | 2  | < 0.01% | 0   | 0.00%  |
| Estimated Active US Implants                     | 15,033                  | Battery                          | 0  | 0.00%   | 1   | <0.01% |
| Estimated Longevity                              | (see table on page 111) | High Voltage Capacitor           | 0  | 0.00%   | 0   | 0.00%  |
| Normal Battery Depletion                         | 8                       | Software/Firmware                | 0  | 0.00%   | 1   | <0.01% |
| Max. Delivered Energy                            | 40 joules               | Mechanical                       | 0  | 0.00%   | 1   | <0.01% |
| Number of US Advisories (see pg. 206)            | One                     | Possible Early Battery Depletion | 0  | 0.00%   | 1   | <0.01% |
|  |                         | Other                            | 3  | 0.01%   | 3   | 0.01%  |
|  |                         | Total                            | 7  | 0.03%   | 14  | 0.05%  |

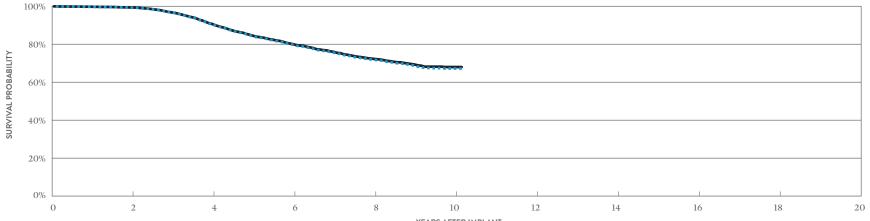


| INCLUDING NORMAL BATTERY DEPLETION |        |        |        |        |        |        |        |        |               |  |  |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--|--|
| YEAR                               | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 101 MONTHS |  |  |
| SURVIVAL PROBABILITY               | 99.86% | 99.79% | 99.78% | 99.73% | 99.70% | 99.70% | 99.62% | 99.62% | 99.62%        |  |  |
| ±1 STANDARD ERROR                  | 0.02%  | 0.03%  | 0.03%  | 0.03%  | 0.04%  | 0.04%  | 0.06%  | 0.06%  | 0.06%         |  |  |
| SAMPLE SIZE                        | 24,450 | 21,350 | 18,540 | 15,370 | 11,730 | 8,200  | 5,210  | 2,450  | 280           |  |  |
|                                    |        |        |        |        |        |        |        |        |               |  |  |

| EXCLUDING NORMAL BATTERY DEPLETION |        |        |        |        |        |        |        |        |               |  |  |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--|--|
| YEAR                               | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 101 MONTHS |  |  |
| SURVIVAL PROBABILITY               | 99.89% | 99.86% | 99.86% | 99.82% | 99.80% | 99.80% | 99.72% | 99.72% | 99.72%        |  |  |
| ±1 STANDARD ERROR                  | 0.02%  | 0.02%  | 0.02%  | 0.03%  | 0.03%  | 0.03%  | 0.05%  | 0.05%  | 0.05%         |  |  |

\*DF4-LLHH connector type.

| Fortify Assura™ VR<br>MODEL CD1357-40Q* (BATTERY A | W/ COM                  | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |       |
|--|-------------------------|----------------------------------|--|---------|-----|-------|
|  |                         |                                  | QTY  | RATE    | QTY | RATE  |
| US Regulatory Approval                             | June 2013               | Electrical Component             | 5  | 0.05%   | 8   | 0.08% |
| Registered US Implants                             | 10,214                  | Electrical Interconnect          | 1  | < 0.01% | 0   | 0.00% |
| Estimated Active US Implants                       | 3,581                   | Battery                          | 0  | 0.00%   | 9   | 0.09% |
| Estimated Longevity                                | (see table on page 111) | High Voltage Capacitor           | 2  | 0.02%   | 0   | 0.00% |
| Normal Battery Depletion                           | 19                      | Software/Firmware                | 1  | < 0.01% | 0   | 0.00% |
| Max. Delivered Energy                              | 40 joules               | Mechanical                       | 0  | 0.00%   | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)        | Three                   | Possible Early Battery Depletion | 68   | 0.67%   | 735 | 7.20% |
|  |                         | Other                            | 4  | 0.04%   | 6   | 0.06% |
|  |                         | Total                            | 81   | 0.79%   | 758 | 7.42% |



YEARS AFTER IMPLANT

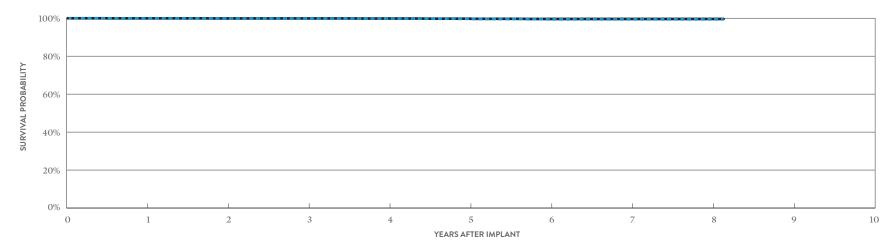
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 122 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.25% | 90.48% | 79.70% | 71.79% | 67.20% | 67.20%        |
| ±1 STANDARD ERROR    | 0.09%  | 0.33%  | 0.47%  | 0.54%  | 0.63%  | 0.63%         |
| SAMPLE SIZE          | 8,560  | 6,930  | 5,580  | 4,380  | 1,170  | 220           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 122 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.32% | 90.67% | 80.03% | 72.28% | 67.99% | 67.99%        |
| ± 1 STANDARD ERROR   | 0.08%  | 0.33%  | 0.47%  | 0.54%  | 0.62%  | 0.62%         |

| Fortify Assura <sup>™</sup> VR<br>MODEL CD1357-40C* (NON-BAT |                         |                                  | W/O COMP | MALFUNCTIONS<br>V/O COMPROMISED<br>THERAPY |     |       |
|--|-------------------------|----------------------------------|----------|--|-----|-------|
|  |                         |                                  | QTY      | RATE                                       | QTY | RATE  |
| US Regulatory Approval                                       | June 2013               | Electrical Component             | 0        | 0.00%                                      | 2   | 0.03% |
| Registered US Implants                                       | 6,379                   | Electrical Interconnect          | 0        | 0.00%                                      | 0   | 0.00% |
| Estimated Active US Implants                                 | 3,560                   | Battery                          | 0        | 0.00%                                      | 0   | 0.00% |
| Estimated Longevity  | (see table on page 111) | High Voltage Capacitor           | 0        | 0.00%                                      | 0   | 0.00% |
| Normal Battery Depletion                                     | 3                       | Software/Firmware                | 0        | 0.00%                                      | 0   | 0.00% |
| Max. Delivered Energy  | 40 joules               | Mechanical                       | 0        | 0.00%                                      | 1   | 0.02% |
| Number of US Advisories (see pg. 206)                        | One                     | Possible Early Battery Depletion | 0        | 0.00%                                      | 2   | 0.03% |
|  |                         | Other                            | 0        | 0.00%                                      | 1   | 0.02% |
|  |                         | Total                            | 0        | 0.00%                                      | 6   | 0.09% |



| INCLUDING NORMAL BATTERY DEPLETION |  |
|------------------------------------|--|

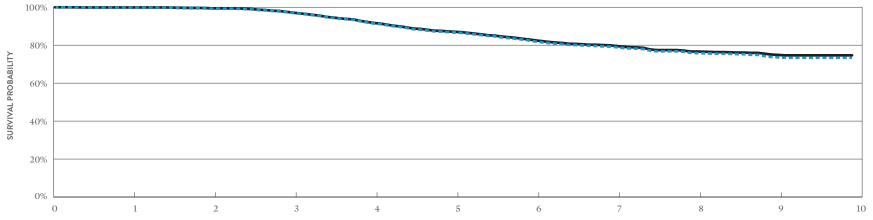
| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 98 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.96% | 99.88% | 99.88% | 99.83% | 99.70% | 99.43% | 99.43% | 99.43% | 99.43%       |
| ± 1 STANDARD ERROR   | 0.02%  | 0.05%  | 0.05%  | 0.06%  | 0.09%  | 0.12%  | 0.14%  | 0.14%  | 0.14%        |
| SAMPLE SIZE          | 5,830  | 4,900  | 4,250  | 3,710  | 3,150  | 2,370  | 1,420  | 630    | 250          |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | AT 98 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.96% | 99.92% | 99.92% | 99.87% | 99.80% | 99.64% | 99.64% | 99.64% | 99.64%       |
| ±1 STANDARD ERROR    | 0.02%  | 0.04%  | 0.04%  | 0.06%  | 0.07%  | 0.11%  | 0.11%  | 0.11%  | 0.11%        |

\*Parylene coating.

| Fortify Assura <sup>™</sup> VR<br>MODEL CD1357-40C* (BATTERY A | W/ COMP                 | NCTIONS<br>PROMISED<br>RAPY     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|--|-------------------------|---------------------------------|--|-------|-----|-------|
|  |                         |                                 | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval   | June 2013               | Electrical Component            | 3  | 0.07% | 2   | 0.05% |
| Registered US Implants   | 4,131                   | Electrical Interconnect         | 1  | 0.02% | 0   | 0.00% |
| Estimated Active US Implants                                   | 1,424                   | Battery                         | 0  | 0.00% | 6   | 0.15% |
| Estimated Longevity  | (see table on page 111) | High Voltage Capacitor          | 1  | 0.02% | 0   | 0.00% |
| Normal Battery Depletion                                       | 12                      | Software/Firmware               | 0  | 0.00% | 1   | 0.02% |
| Max. Delivered Energy  | 40 joules               | Mechanical                      | 1  | 0.02% | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)                    | Three                   | Possible Early Battery Depletio | n 9  | 0.22% | 232 | 5.62% |
|  |                         | Other                           | 0  | 0.00% | 2   | 0.05% |
|  |                         | Total                           | 15   | 0.36% | 243 | 5.88% |



YEARS AFTER IMPLANT

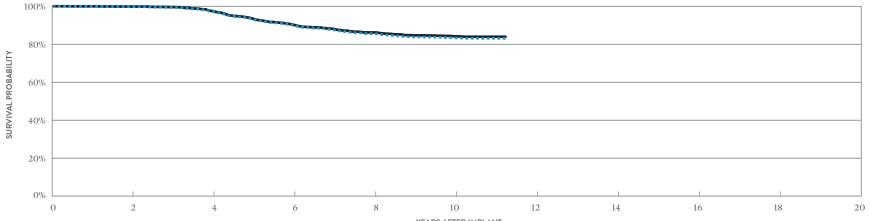
| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 119 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.79% | 99.25% | 97.01% | 91.45% | 86.71% | 81.96% | 78.96% | 75.85% | 73.62% | 73.41%        |
| ±1 STANDARD ERROR    | 0.07%  | 0.13%  | 0.28%  | 0.51%  | 0.64%  | 0.73%  | 0.79%  | 0.85%  | 0.91%  | 0.93%         |
| SAMPLE SIZE          | 3,860  | 3,380  | 2,980  | 2,650  | 2,380  | 2,140  | 1,920  | 1,650  | 1,100  | 210           |

| EXCLUDING NORMAL BATTERY DEPLETION - |
|--------------------------------------|
|--------------------------------------|

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 119 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.90% | 99.44% | 97.20% | 91.74% | 87.09% | 82.56% | 79.62% | 76.69% | 74.90% | 74.68%        |
| ±1 STANDARD ERROR    | 0.05%  | 0.11%  | 0.28%  | 0.50%  | 0.63%  | 0.72%  | 0.78%  | 0.84%  | 0.89%  | 0.91%         |

\*Parylene coating.

| Fortify Assura <sup>™</sup> VR<br>MODEL CD1257-40Q* (BATTERY A | W/ COMP                 | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |     |       |
|--|-------------------------|----------------------------------|--|-------|-----|-------|
|  |                         |                                  | QTY  | RATE  | QTY | RATE  |
| US Regulatory Approval   | May 2012                | Electrical Component             | 1  | 0.02% | 2   | 0.04% |
| Registered US Implants   | 5,079                   | Electrical Interconnect          | 1  | 0.02% | 0   | 0.00% |
| Estimated Active US Implants                                   | 1,621                   | Battery                          | 0  | 0.00% | 4   | 0.08% |
| Estimated Longevity  | (see table on page 111) | High Voltage Capacitor           | 0  | 0.00% | 0   | 0.00% |
| Normal Battery Depletion                                       | 12                      | Software/Firmware                | 0  | 0.00% | 0   | 0.00% |
| Max. Delivered Energy  | 40 joules               | Mechanical                       | 0  | 0.00% | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)                    | Three                   | Possible Early Battery Depletion | 20   | 0.39% | 166 | 3.27% |
|  |                         | Other                            | 1  | 0.02% | 1   | 0.02% |
|  |                         | Total                            | 23   | 0.45% | 173 | 3.41% |





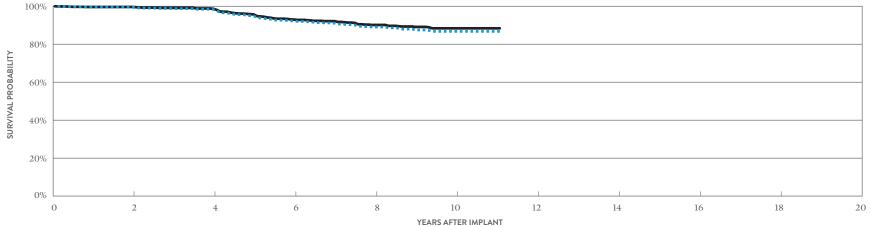
INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 135 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.77% | 97.24% | 90.00% | 85.59% | 83.33% | 83.10%        |
| ± 1 STANDARD ERROR   | 0.07%  | 0.26%  | 0.52%  | 0.63%  | 0.69%  | 0.70%         |
| SAMPLE SIZE          | 4,230  | 3,410  | 2,790  | 2,310  | 1,750  | 220           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 135 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.86% | 97.49% | 90.28% | 86.22% | 84.17% | 83.94%        |
| ± 1 STANDARD ERROR   | 0.06%  | 0.25%  | 0.51%  | 0.62%  | 0.67%  | 0.68%         |

| Fortify Assura™ VR<br>MODEL CD1257-40 (BATTERY ADV | MALFUNCTIONS<br>W/ COMPROMISED<br>THERAPY |                                  | W/O COMP | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |     |       |
|--|---|----------------------------------|----------|--|-----|-------|
|  |   |                                  | QTY      | RATE                                       | QTY | RATE  |
| US Regulatory Approval                             | May 2012                                  | Electrical Component             | 2        | 0.09%                                      | 0   | 0.00% |
| Registered US Implants                             | 2,294                                     | Electrical Interconnect          | 2        | 0.09%                                      | 0   | 0.00% |
| Estimated Active US Implants                       | 772                                       | Battery                          | 1        | 0.04%                                      | 2   | 0.09% |
| Estimated Longevity                                | (see table on page 111)                   | High Voltage Capacitor           | 0        | 0.00%                                      | 0   | 0.00% |
| Normal Battery Depletion                           | 9   | Software/Firmware                | 0        | 0.00%                                      | 0   | 0.00% |
| Max. Delivered Energy                              | 40 joules                                 | Mechanical                       | 0        | 0.00%                                      | 0   | 0.00% |
| Number of US Advisories (see pgs. 206, 207)        | Three                                     | Possible Early Battery Depletion | 7        | 0.31%                                      | 51  | 2.22% |
|  |   | Other                            | 2        | 0.09%                                      | 1   | 0.04% |
|  |   | Total                            | 14       | 0.61%                                      | 54  | 2.35% |



| YEARS A | FTER | IMPL | AN' |
|---------|------|------|-----|
|---------|------|------|-----|

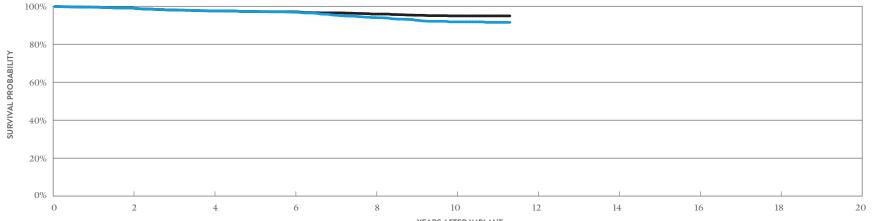
### INCLUDING NORMAL BATTERY DEPLETION -

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 133 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.52% | 98.29% | 92.18% | 89.08% | 86.76% | 86.76%        |
| ± 1 STANDARD ERROR   | 0.15%  | 0.30%  | 0.70%  | 0.85%  | 0.95%  | 0.95%         |
| SAMPLE SIZE          | 1,890  | 1,490  | 1,240  | 1,040  | 770    | 210           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 133 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.63% | 98.69% | 92.97% | 90.16% | 88.39% | 88.39%        |
| ± 1 STANDARD ERROR   | 0.13%  | 0.26%  | 0.67%  | 0.82%  | 0.90%  | 0.90%         |

| Ellipse™ VR<br>MODEL CD1311-36Q*            |                         |                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | W/O COM | ACTIONS<br>PROMISED<br>RAPY |
|---|-------------------------|----------------------------------|---------|-----------------------------|---------|-----------------------------|
|   |                         |                                  | QTY     | RATE                        | QTY     | RATE                        |
| US Regulatory Approval                      | May 2012                | Electrical Component             | 3       | 0.06%                       | 4       | 0.08%                       |
| Registered US Implants                      | 4,743                   | Electrical Interconnect          | 0       | 0.00%                       | 1       | 0.02%                       |
| Estimated Active US Implants                | 1,332                   | Battery                          | 0       | 0.00%                       | 0       | 0.00%                       |
| Estimated Longevity                         | (see table on page 111) | High Voltage Capacitor           | 38      | 0.80%                       | 16      | 0.34%                       |
| Normal Battery Depletion                    | 31                      | Software/Firmware                | 1       | 0.02%                       | 0       | 0.00%                       |
| Max. Delivered Energy                       | 36 joules               | Mechanical                       | 1       | 0.02%                       | 0       | 0.00%                       |
| Number of US Advisories (see pgs. 206, 208) | Two                     | Possible Early Battery Depletion | 0       | 0.00%                       | 0       | 0.00%                       |
|   |                         | Other                            | 1       | 0.02%                       | 5       | 0.11%                       |
|   |                         | Total                            | 44      | 0.93%                       | 26      | 0.55%                       |



YEARS AFTER IMPLANT

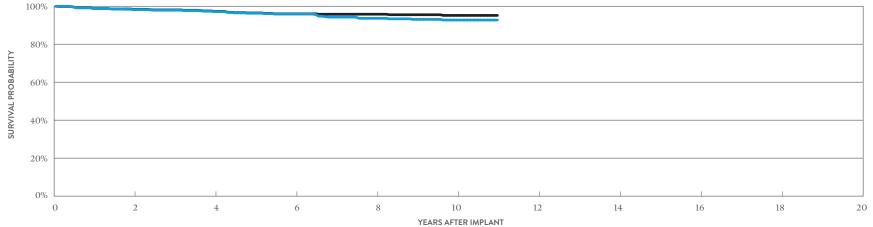
### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 136 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.11% | 97.58% | 96.85% | 94.04% | 91.79% | 91.52%        |
| ± 1 STANDARD ERROR   | 0.14%  | 0.25%  | 0.29%  | 0.44%  | 0.54%  | 0.57%         |
| SAMPLE SIZE          | 3,940  | 3,220  | 2,720  | 2,260  | 1,630  | 230           |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 136 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.11% | 97.58% | 97.07% | 95.89% | 94.93% | 94.93%        |
| ± 1 STANDARD ERROR   | 0.14%  | 0.25%  | 0.28%  | 0.35%  | 0.41%  | 0.41%         |

| Ellipse™ VR<br>MODEL CD1311-36              | *                       |                                  |     |       |     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |  |  |
|---|-------------------------|----------------------------------|-----|-------|-----|--|--|--|
|   |                         |                                  | QTY | RATE  | QTY | RATE                                       |  |  |
| US Regulatory Approval                      | May 2012                | Electrical Component             | 4   | 0.25% | 2   | 0.12%                                      |  |  |
| Registered US Implants                      | 1,621                   | Electrical Interconnect          | 1   | 0.06% | 0   | 0.00%                                      |  |  |
| Estimated Active US Implants                | 471                     | Battery                          | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Estimated Longevity                         | (see table on page 111) | High Voltage Capacitor           | 8   | 0.49% | 4   | 0.25%                                      |  |  |
| Normal Battery Depletion                    | 9                       | Software/Firmware                | 0   | 0.00% | 1   | 0.06%                                      |  |  |
| Max. Delivered Energy                       | 36 joules               | Mechanical                       | 2   | 0.12% | 1   | 0.06%                                      |  |  |
| Number of US Advisories (see pgs. 206, 208) | Two                     | Possible Early Battery Depletion | 0   | 0.00% | 0   | 0.00%                                      |  |  |
|   |                         | Other                            | 2   | 0.12% | 0   | 0.00%                                      |  |  |
|   |                         | Total                            | 17  | 1.05% | 8   | 0.49%                                      |  |  |



| YEARS | AFTER | IMPLAN |
|-------|-------|--------|
|-------|-------|--------|

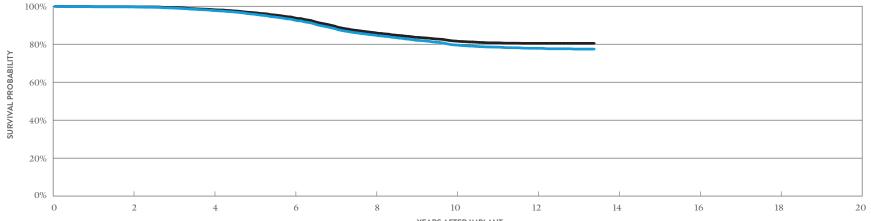
INCLUDING NORMAL BATTERY DEPLETION -

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 132 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.25% | 97.19% | 95.90% | 93.65% | 92.74% | 92.74%        |
| ± 1 STANDARD ERROR   | 0.33%  | 0.44%  | 0.58%  | 0.76%  | 0.84%  | 0.84%         |
| SAMPLE SIZE          | 1,330  | 1,090  | 910    | 760    | 540    | 200           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | AT 132 MONTHS |
|----------------------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.41% | 97.34% | 96.05% | 95.81% | 95.19% | 95.19%        |
| ± 1 STANDARD ERROR   | 0.31%  | 0.43%  | 0.57%  | 0.59%  | 0.67%  | 0.67%         |

| Fortify <sup>™</sup> VR<br>MODEL CD1231-40Q* (BATTERY A | ortify™ VR<br>ODEL CD1231-40Q* (BATTERY ADVISORY POPULATION) |                                  |     |       |     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |  |  |
|---|--|----------------------------------|-----|-------|-----|--|--|--|
|   |  |                                  | QTY | RATE  | QTY | RATE                                       |  |  |
| US Regulatory Approval                                  | May 2010   | Electrical Component             | 7   | 0.04% | 10  | 0.06%                                      |  |  |
| Registered US Implants                                  | 16,341   | Electrical Interconnect          | 2   | 0.01% | 0   | 0.00%                                      |  |  |
| Estimated Active US Implants                            | 3,780  | Battery                          | 18  | 0.11% | 49  | 0.30%                                      |  |  |
| Estimated Longevity                                     | (see table on page 111)                                      | High Voltage Capacitor           | 2   | 0.01% | 1   | <0.01%                                     |  |  |
| Normal Battery Depletion                                | 101  | Software/Firmware                | 0   | 0.00% | 1   | < 0.01%                                    |  |  |
| Max. Delivered Energy                                   | 40 joules  | Mechanical                       | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Number of US Advisories (see pgs. 206, 207)             | Three  | Possible Early Battery Depletion | 132 | 0.81% | 443 | 2.71%                                      |  |  |
|   |  | Other                            | 9   | 0.06% | 7   | 0.04%                                      |  |  |
|   |  | Total                            | 170 | 1.04% | 511 | 3.13%                                      |  |  |



YEARS AFTER IMPLANT

#### INCLUDING NORMAL BATTERY DEPLETION

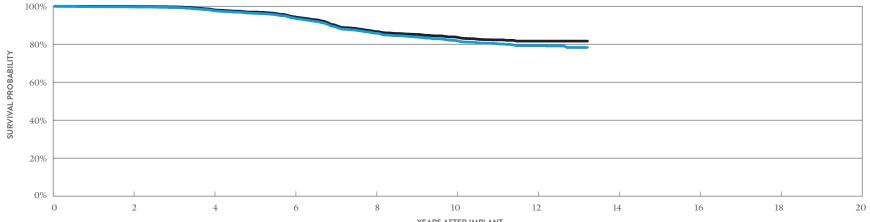
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 161 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.66% | 97.75% | 92.76% | 84.78% | 79.61% | 77.87% | 77.45%        |
| ± 1 STANDARD ERROR   | 0.05%  | 0.13%  | 0.25%  | 0.37%  | 0.43%  | 0.45%  | 0.48%         |
| SAMPLE SIZE          | 13,410 | 10,930 | 8,890  | 7,280  | 6,020  | 3,690  | 280           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 161 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.78% | 98.20% | 93.94% | 86.06% | 81.66% | 80.47% | 80.47%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.12%  | 0.23%  | 0.36%  | 0.42%  | 0.43%  | 0.43%         |

\*DF4-LLHH connector type.

| Fortify <sup>™</sup> VR<br>MODEL CD1231-40 (BATTERY ADV | ortify $^{	imes}$ VR<br>ODEL CD1231-40 (BATTERY ADVISORY POPULATION) |                                  |     |       |     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |  |  |
|---|--|----------------------------------|-----|-------|-----|--|--|--|
|   |  |                                  | QTY | RATE  | QTY | RATE                                       |  |  |
| US Regulatory Approval                                  | May 2010   | Electrical Component             | 5   | 0.07% | 6   | 0.09%                                      |  |  |
| Registered US Implants                                  | 6,782  | Electrical Interconnect          | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Estimated Active US Implants                            | 1,525  | Battery                          | 4   | 0.06% | 14  | 0.21%                                      |  |  |
| Estimated Longevity                                     | (see table on page 111)  | High Voltage Capacitor           | 10  | 0.15% | 4   | 0.06%                                      |  |  |
| Normal Battery Depletion                                | 38   | Software/Firmware                | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Max. Delivered Energy                                   | 40 joules  | Mechanical                       | 0   | 0.00% | 1   | 0.01%                                      |  |  |
| Number of US Advisories (see pgs. 206, 207)             | Three  | Possible Early Battery Depletion | 44  | 0.65% | 148 | 2.18%                                      |  |  |
|   |  | Other                            | 6   | 0.09% | 6   | 0.09%                                      |  |  |
|   |  | Total                            | 69  | 1.02% | 179 | 2.64%                                      |  |  |



YEARS AFTER IMPLANT

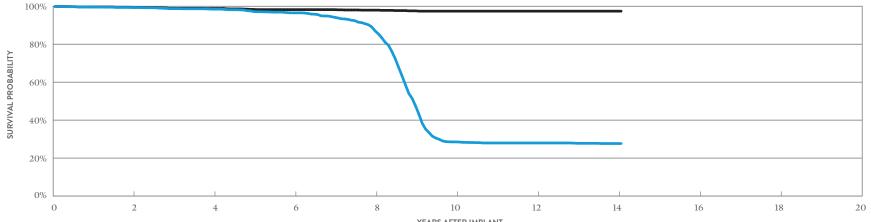
#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 159 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.63% | 97.70% | 93.74% | 85.80% | 81.98% | 79.27% | 78.29%        |
| ± 1 STANDARD ERROR   | 0.07%  | 0.20%  | 0.37%  | 0.58%  | 0.66%  | 0.72%  | 0.81%         |
| SAMPLE SIZE          | 5,530  | 4,390  | 3,510  | 2,830  | 2,320  | 1,460  | 230           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 159 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.90% | 98.17% | 94.45% | 86.70% | 83.80% | 81.65% | 81.65%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.18%  | 0.36%  | 0.57%  | 0.63%  | 0.69%  | 0.69%         |

| Current <sup>™</sup> + VR<br>MODEL CD1211-36Q* |                         |                                  |     |       |     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |  |  |
|--|-------------------------|----------------------------------|-----|-------|-----|--|--|--|
|  |                         |                                  | QTY | RATE  | QTY | RATE                                       |  |  |
| US Regulatory Approval                         | February 2009           | Electrical Component             | 4   | 0.08% | 3   | 0.06%                                      |  |  |
| Registered US Implants                         | 4,792                   | Electrical Interconnect          | 0   | 0.00% | 0   | 0.00%                                      |  |  |
| Estimated Active US Implants                   | 648                     | Battery                          | 6   | 0.13% | 3   | 0.06%                                      |  |  |
| Estimated Longevity                            | (see table on page 111) | High Voltage Capacitor           | 1   | 0.02% | 0   | 0.00%                                      |  |  |
| Normal Battery Depletion                       | 682                     | Software/Firmware                | 0   | 0.00% | 3   | 0.06%                                      |  |  |
| Max. Delivered Energy                          | 36 joules               | Mechanical                       | 0   | 0.00% | 1   | 0.02%                                      |  |  |
| Number of US Advisories (see pg. 206)          | One                     | Possible Early Battery Depletion | 6   | 0.13% | 2   | 0.04%                                      |  |  |
|  |                         | Other                            | 3   | 0.06% | 2   | 0.04%                                      |  |  |
|  |                         | Total                            | 20  | 0.42% | 14  | 0.29%                                      |  |  |



YEARS AFTER IMPLANT

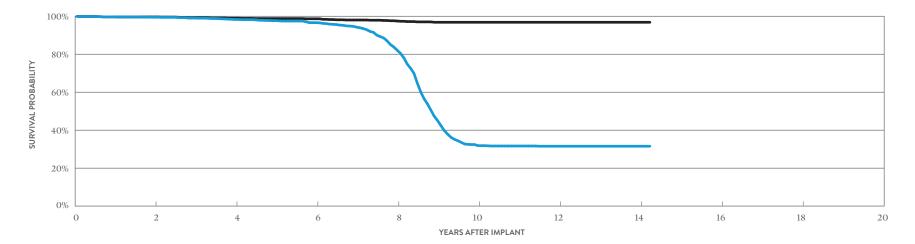
INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 169 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.34% | 98.48% | 96.54% | 87.04% | 28.56% | 28.00% | 27.71% | 27.71%        |
| ± 1 STANDARD ERROR   | 0.12%  | 0.20%  | 0.33%  | 0.63%  | 0.89%  | 0.88%  | 0.88%  | 0.88%         |
| SAMPLE SIZE          | 3,850  | 3,050  | 2,470  | 2,030  | 1,040  | 730    | 420    | 230           |

| EXCLUDING NORMAL BAT | ITERY DEPLETIO | N      |        |        |        |        |        |               |
|----------------------|----------------|--------|--------|--------|--------|--------|--------|---------------|
| YEAR                 | 2              | 4      | 6      | 8      | 10     | 12     | 14     | AT 169 MONTHS |
| SURVIVAL PROBABILITY | 99.45%         | 98.85% | 98.23% | 97.95% | 97.42% | 97.42% | 97.42% | 97.42%        |
| ±1 STANDARD ERROR    | 0.11%          | 0.18%  | 0.23%  | 0.26%  | 0.32%  | 0.32%  | 0.32%  | 0.32%         |

\*DF4-LLHH connector type.

| Current <sup>™</sup> + VR<br>MODEL CD1211-36 |                         |                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | W/O COM | NCTIONS<br>PROMISED<br>RAPY |
|--|-------------------------|----------------------------------|---------|-----------------------------|---------|-----------------------------|
|  |                         |                                  | QTY     | RATE                        | QTY     | RATE                        |
| US Regulatory Approval                       | February 2009           | Electrical Component             | 3       | 0.08%                       | 3       | 0.08%                       |
| Registered US Implants                       | 3,641                   | Electrical Interconnect          | 2       | 0.05%                       | 0       | 0.00%                       |
| Estimated Active US Implants                 | 516                     | Battery                          | 5       | 0.14%                       | 0       | 0.00%                       |
| Estimated Longevity                          | (see table on page 111) | High Voltage Capacitor           | 2       | 0.05%                       | 0       | 0.00%                       |
| Normal Battery Depletion                     | 480                     | Software/Firmware                | 0       | 0.00%                       | 5       | 0.14%                       |
| Max. Delivered Energy                        | 36 joules               | Mechanical                       | 0       | 0.00%                       | 0       | 0.00%                       |
| Number of US Advisories (see pg. 206)        | One                     | Possible Early Battery Depletion | 5       | 0.14%                       | 2       | 0.05%                       |
|  |                         | Other                            | 2       | 0.05%                       | 1       | 0.03%                       |
|  |                         | Total                            | 19      | 0.52%                       | 11      | 0.30%                       |



INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 171 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.50% | 98.31% | 96.64% | 82.18% | 31.86% | 31.56% | 31.56% | 31.56%        |
| ± 1 STANDARD ERROR   | 0.12%  | 0.25%  | 0.38%  | 0.88%  | 1.08%  | 1.07%  | 1.07%  | 1.07%         |
| SAMPLE SIZE          | 2,940  | 2,330  | 1,860  | 1,500  | 780    | 580    | 370    | 220           |

#### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 171 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.64% | 98.96% | 98.67% | 97.50% | 96.84% | 96.84% | 96.84% | 96.84%        |
| ± 1 STANDARD ERROR   | 0.10%  | 0.19%  | 0.23%  | 0.34%  | 0.42%  | 0.42%  | 0.42%  | 0.42%         |

BATTERY LONGEVITY SUMMARY Single-Chamber Implantable Cardioverter Defibrillator (ICD) Devices

Battery Longevity (years)

| MODELS     | FAMILY               | NO<br>PACING | 25%<br>PACING | 50%<br>PACING | 100%<br>PACING |
|------------|----------------------|--------------|---------------|---------------|----------------|
| CDVRA500Q  | Gallant" VR*         | 11.2         | 10.8          | 10.4          | 9.8            |
| CD1411-36Q | Ellipse VR*          | 11.1         | 10.6          | 10.1          | 9.4            |
| CD1411-36C | Ellipse" VR*         | 11.1         | 10.6          | 10.1          | 9.4            |
| CD1357-40Q | Fortify Assura" VR** | 11.7         | 11.3          | 10.8          | 10.1           |
| CD1357-40C | Fortify Assura" VR** | 11.7         | 11.3          | 10.8          | 10.1           |
| CD1257-40Q | Fortify Assura" VR** | 11.7         | 11.3          | 10.8          | 10.1           |
| CD1257-40  | Fortify Assura" VR** | 11.7         | 11.3          | 10.8          | 10.1           |
| CD1311-36Q | Ellipse" VR*         | 11.1         | 10.6          | 10.1          | 9.4            |
| CD1311-36  | Ellipse" VR*         | 11.1         | 10.6          | 10.1          | 9.4            |
| CD1231-40Q | Fortify" VR**        | 10.8         | 10.3          | 9.9           | 9.1            |
| CD1231-40  | Fortify" VR**        | 10.8         | 10.3          | 9.9           | 9.1            |
| CD1211-36Q | Current" + VR***     | 8.4          | 8.0           | 7.6           | 7.0            |
| CD1211-36  | Current" + VR***     | 8.4          | 8.0           | 7.6           | 7.0            |

Pacing parameters: VVI, 2.5V, 0.5 ms, 60 ppm, 500 ohms

\* Battery voltage range 3.20-2.59. Two maximum charges per year.

\*\* Battery voltage range 3.20-2.59. Three maximum charges per year.

\*\*\* Battery voltage range: 3.20-2.45. Four maximum charges per year as well as monthly charging during the battery's mid-life voltage range.

SUMMARY INFORMATION Single-Chamber Implantable Cardioverter Defibrillator (ICD) Devices

Survival Probability Summary

### INCLUDING NORMAL BATTERY DEPLETION

| MODELS     | FAMILY                         | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|------------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| CDVRA500Q  | Gallant" VR*                   | 99.98% | 99.98% | 99.98% |        |        |        |        |        |        |         |
| CD1411-36Q | Ellipse" VR                    | 99.86% | 99.68% | 99.63% | 99.60% | 99.47% | 99.37% | 99.10% | 98.12% | 94.86% | 86.93%  |
| CD1411-36C | Ellipse <sup>™</sup> VR        | 99.94% | 99.91% | 99.87% | 99.75% | 99.70% | 99.59% | 99.42% | 98.75% | 95.54% |         |
| CD1357-40Q | Fortify Assura" VR             | 99.86% | 99.79% | 99.78% | 99.73% | 99.70% | 99.70% | 99.62% | 99.62% |        |         |
| CD1357-40Q | Fortify Assura" $VR^{\dagger}$ | 99.74% | 99.25% | 96.69% | 90.48% | 84.31% | 79.70% | 75.58% | 71.79% | 68.73% | 67.20%  |
| CD1357-40C | Fortify Assura" VR             | 99.96% | 99.88% | 99.88% | 99.83% | 99.70% | 99.43% | 99.43% | 99.43% |        |         |
| CD1357-40C | Fortify Assura" $VR^{\dagger}$ | 99.79% | 99.25% | 97.01% | 91.45% | 86.71% | 81.96% | 78.96% | 75.85% | 73.62% |         |
| CD1257-40Q | Fortify Assura" $VR^{\dagger}$ | 99.92% | 99.77% | 99.32% | 97.24% | 93.21% | 90.00% | 87.59% | 85.59% | 83.81% | 83.33%  |
| CD1257-40  | Fortify Assura $VR^{\dagger}$  | 99.63% | 99.52% | 98.76% | 98.29% | 94.88% | 92.18% | 91.05% | 89.08% | 87.48% | 86.76%  |
| CD1311-36Q | Ellipse <sup>™</sup> VR        | 99.51% | 99.11% | 98.06% | 97.58% | 97.21% | 96.85% | 95.29% | 94.04% | 92.64% | 91.79%  |
| CD1311-36  | Ellipse" VR                    | 98.86% | 98.25% | 97.92% | 97.19% | 96.32% | 95.90% | 94.28% | 93.65% | 93.08% | 92.74%  |
| CD1231-40Q | Fortify" $VR^{\dagger}$        | 99.73% | 99.66% | 99.10% | 97.75% | 95.84% | 92.76% | 88.26% | 84.78% | 82.10% | 79.61%  |
| CD1231-40  | Fortify" $VR^{\dagger}$        | 99.74% | 99.63% | 99.34% | 97.70% | 96.26% | 93.74% | 89.29% | 85.80% | 83.86% | 81.98%  |
| CD1211-36Q | Current" + VR                  | 99.57% | 99.34% | 98.75% | 98.48% | 97.21% | 96.54% | 94.19% | 87.04% | 47.52% | 28.56%  |
| CD1211-36  | Current" + VR                  | 99.70% | 99.50% | 99.08% | 98.31% | 97.69% | 96.64% | 94.24% | 82.18% | 45.09% | 31.86%  |

\*No survival probability is stated at one year due to the device not meeting the required minimum sample size of 200 U.S. implants with 12 consecutive months of data. Please refer to the individual graphs for data up to one year.

*†Premature battery depletion advisory population.* 

Survival Probability Summary

### **EXCLUDING NORMAL BATTERY DEPLETION**

| MODELS     | FAMILY                         | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|------------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| CDVRA500Q  | Gallant" VR*                   | 99.98% | 99.98% | 99.98% |        |        |        |        |        |        |         |
| CD1411-36Q | Ellipse" VR                    | 99.88% | 99.79% | 99.74% | 99.72% | 99.64% | 99.56% | 99.46% | 99.27% | 98.98% | 98.98%  |
| CD1411-36C | Ellipse <sup>™</sup> VR        | 99.94% | 99.94% | 99.91% | 99.82% | 99.78% | 99.78% | 99.71% | 99.61% | 99.10% |         |
| CD1357-40Q | Fortify Assura" VR             | 99.89% | 99.86% | 99.86% | 99.82% | 99.80% | 99.80% | 99.72% | 99.72% |        |         |
| CD1357-40Q | Fortify Assura" $VR^{\dagger}$ | 99.77% | 99.32% | 96.76% | 90.67% | 84.53% | 80.03% | 75.98% | 72.28% | 69.32% | 67.99%  |
| CD1357-40C | Fortify Assura" VR             | 99.96% | 99.92% | 99.92% | 99.87% | 99.80% | 99.64% | 99.64% | 99.64% |        |         |
| CD1357-40C | Fortify Assura" $VR^{\dagger}$ | 99.90% | 99.44% | 97.20% | 91.74% | 87.09% | 82.56% | 79.62% | 76.69% | 74.90% |         |
| CD1257-40Q | Fortify Assura" $VR^{\dagger}$ | 99.96% | 99.86% | 99.57% | 97.49% | 93.50% | 90.28% | 88.08% | 86.22% | 84.66% | 84.17%  |
| CD1257-40  | Fortify Assura $VR^{\dagger}$  | 99.63% | 99.63% | 99.16% | 98.69% | 95.69% | 92.97% | 92.16% | 90.16% | 89.13% | 88.39%  |
| CD1311-36Q | Ellipse <sup>™</sup> VR        | 99.51% | 99.11% | 98.06% | 97.58% | 97.21% | 97.07% | 96.53% | 95.89% | 95.27% | 94.93%  |
| CD1311-36  | Ellipse" VR                    | 98.86% | 98.41% | 98.08% | 97.34% | 96.47% | 96.05% | 95.81% | 95.81% | 95.54% | 95.19%  |
| CD1231-40Q | Fortify" $VR^{\dagger}$        | 99.83% | 99.78% | 99.33% | 98.20% | 96.64% | 93.94% | 89.55% | 86.06% | 83.64% | 81.66%  |
| CD1231-40  | Fortify" $VR^{\dagger}$        | 99.97% | 99.90% | 99.67% | 98.17% | 96.93% | 94.45% | 90.16% | 86.70% | 85.21% | 83.80%  |
| CD1211-36Q | Current" + VR                  | 99.69% | 99.45% | 98.92% | 98.85% | 98.31% | 98.23% | 98.23% | 97.95% | 97.59% | 97.42%  |
| CD1211-36  | Current" + VR                  | 99.70% | 99.64% | 99.22% | 98.96% | 98.78% | 98.67% | 98.03% | 97.50% | 96.84% | 96.84%  |

\*No survival probability is stated at one year due to the device not meeting the required minimum sample size of 200 U.S. implants with 12 consecutive months of data. Please refer to the individual graphs for data up to one year.

*†Premature battery depletion advisory population.* 

US Malfunction Summary

#### WITH COMPROMISED THERAPY

|            |   | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>ONENT |     | TRICAL<br>CONNECT | BAT | TERY  |     | OLTAGE |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>ETION | от  | HER    | тот | TAL   |
|------------|---|-------------|----------------------------|-----|-----------------|-----|-------------------|-----|-------|-----|--------|-----|---------------|------|--------|-----|---------------------------|-----|--------|-----|-------|
| MODELS     | FAMILY                                  | US IMPLANTS | ANALYSIS                   | QTY | RATE            | QTY | RATE              | QTY | RATE  | QTY | RATE   | QTY | RATE          | QTY  | RATE   | QTY | RATE                      | QTY | RATE   | QTY | RATE  |
| CDVRA500Q  | Gallant <sup>®</sup> VR                 | 14,267      | 1.40%                      | 0   | 0.00%           | 0   | 0.00%             | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 0   | 0.00%  | 0   | 0.00% |
| CD1411-36Q | Ellipse <sup>-</sup> VR                 | 24,130      | 6.10%                      | 5   | 0.02%           | 0   | 0.00%             | 0   | 0.00% | 10  | 0.04%  | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 2   | <0.01% | 17  | 0.07% |
| CD1411-36C | Ellipse <sup>-</sup> VR                 | 7,486       | 8.10%                      | 0   | 0.00%           | 0   | 0.00%             | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 0   | 0.00%  | 0   | 0.00% |
| CD1357-40Q | Fortify Assura <sup>®</sup> VR          | 26,154      | 5.50%                      | 2   | <0.01%          | 2   | <0.01%            | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 3   | 0.01%  | 7   | 0.03% |
| CD1357-40Q | Fortify Assura" $VR^{\dagger}$          | 10,214      | 19.20%                     | 5   | 0.05%           | 1   | <0.01%            | 0   | 0.00% | 2   | 0.02%  | 1   | < 0.01%       | 0    | 0.00%  | 68  | 0.67%                     | 4   | 0.04%  | 81  | 0.79% |
| CD1357-40C | Fortify Assura" VR                      | 6,379       | 6.90%                      | 0   | 0.00%           | 0   | 0.00%             | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 0   | 0.00%  | 0   | 0.00% |
| CD1357-40C | Fortify Assura" $\mathrm{VR}^{\dagger}$ | 4,131       | 20.80%                     | 3   | 0.07%           | 1   | 0.02%             | 0   | 0.00% | 1   | 0.02%  | 0   | 0.00%         | 1    | 0.02%  | 9   | 0.22%                     | 0   | 0.00%  | 15  | 0.36% |
| CD1257-40Q | Fortify Assura" $VR^{\dagger}$          | 5,079       | 15.20%                     | 1   | 0.02%           | 1   | 0.02%             | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 20  | 0.39%                     | 1   | 0.02%  | 23  | 0.45% |
| CD1257-40  | Fortify Assura" $VR^{\dagger}$          | 2,294       | 17.70%                     | 2   | 0.09%           | 2   | 0.09%             | 1   | 0.04% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 7   | 0.31%                     | 2   | 0.09%  | 14  | 0.61% |
| CD1311-36Q | Ellipse <sup>-</sup> VR                 | 4,743       | 11.10%                     | 3   | 0.06%           | 0   | 0.00%             | 0   | 0.00% | 38  | 0.80%  | 1   | 0.02%         | 1    | 0.02%  | 0   | 0.00%                     | 1   | 0.02%  | 44  | 0.93% |
| CD1311-36  | Ellipse <sup>-</sup> VR                 | 1,621       | 13.40%                     | 4   | 0.25%           | 1   | 0.06%             | 0   | 0.00% | 8   | 0.49%  | 0   | 0.00%         | 2    | 0.12%  | 0   | 0.00%                     | 2   | 0.12%  | 17  | 1.05% |
| CD1231-40Q | Fortify $VR^{\dagger}$                  | 16,341      | 16.70%                     | 7   | 0.04%           | 2   | 0.01%             | 18  | 0.11% | 2   | 0.01%  | 0   | 0.00%         | 0    | 0.00%  | 132 | 0.81%                     | 9   | 0.06%  | 170 | 1.04% |
| CD1231-40  | Fortify $VR^{\dagger}$                  | 6,782       | 18.00%                     | 5   | 0.07%           | 0   | 0.00%             | 4   | 0.06% | 10  | 0.15%  | 0   | 0.00%         | 0    | 0.00%  | 44  | 0.65%                     | 6   | 0.09%  | 69  | 1.02% |
| CD1211-36Q | Current" + VR                           | 4,792       | 25.60%                     | 4   | 0.08%           | 0   | 0.00%             | 6   | 0.13% | 1   | 0.02%  | 0   | 0.00%         | 0    | 0.00%  | 6   | 0.13%                     | 3   | 0.06%  | 20  | 0.42% |
| CD1211-36  | Current" + VR                           | 3,641       | 24.30%                     | 3   | 0.08%           | 2   | 0.05%             | 5   | 0.14% | 2   | 0.05%  | 0   | 0.00%         | 0    | 0.00%  | 5   | 0.14%                     | 2   | 0.05%  | 19  | 0.52% |

Definitions of malfunction categories can be found on pages 5-6. †Premature battery depletion advisory population.

US Malfunction Summary

#### WITHOUT COMPROMISED THERAPY

|            |   | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | IRICAL<br>ONENT |     | TRICAL<br>ONNECT | BA  | TERY   |     | OLTAGE |     | WARE/<br>WARE | MECH | IANICAL | BAT | LE EARLY<br>TERY<br>.ETION | от  | HER   | тот | TAL    |
|------------|---|-------------|----------------------------|-----|-----------------|-----|------------------|-----|--------|-----|--------|-----|---------------|------|---------|-----|----------------------------|-----|-------|-----|--------|
| MODELS     | FAMILY                                  | US IMPLANTS | ANALYSIS                   | QTY | RATE            | QTY | RATE             | QTY | RATE   | QTY | RATE   | QTY | RATE          | QTY  | RATE    | QTY | RATE                       | QTY | RATE  | QTY | RATE   |
| CDVRA500Q  | Gallant <sup>®</sup> VR                 | 14,267      | 1.40%                      | 0   | 0.00%           | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 1    | <0.01%  | 0   | 0.00%                      | 0   | 0.00% | 1   | <0.01% |
| CD1411-36Q | Ellipse <sup>-</sup> VR                 | 24,130      | 6.10%                      | 8   | 0.03%           | 0   | 0.00%            | 2   | <0.01% | 6   | 0.02%  | 1   | <0.01%        | 3    | 0.01%   | 2   | <0.01%                     | 5   | 0.02% | 27  | 0.11%  |
| CD1411-36C | Ellipse <sup>-</sup> VR                 | 7,486       | 8.10%                      | 6   | 0.08%           | 0   | 0.00%            | 0   | 0.00%  | 1   | 0.01%  | 0   | 0.00%         | 1    | 0.01%   | 1   | 0.01%                      | 2   | 0.03% | 11  | 0.15%  |
| CD1357-40Q | Fortify Assura" VR                      | 26,154      | 5.50%                      | 7   | 0.03%           | 0   | 0.00%            | 1   | <0.01% | 0   | 0.00%  | 1   | <0.01%        | 1    | <0.01%  | 1   | <0.01%                     | 3   | 0.01% | 14  | 0.05%  |
| CD1357-40Q | Fortify Assura" $VR^{\dagger}$          | 10,214      | 19.20%                     | 8   | 0.08%           | 0   | 0.00%            | 9   | 0.09%  | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 735 | 7.20%                      | 6   | 0.06% | 758 | 7.42%  |
| CD1357-40C | Fortify Assura" VR                      | 6,379       | 6.90%                      | 2   | 0.03%           | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%         | 1    | 0.02%   | 2   | 0.03%                      | 1   | 0.02% | 6   | 0.09%  |
| CD1357-40C | Fortify Assura" $\mathrm{VR}^{\dagger}$ | 4,131       | 20.80%                     | 2   | 0.05%           | 0   | 0.00%            | 6   | 0.15%  | 0   | 0.00%  | 1   | 0.02%         | 0    | 0.00%   | 232 | 5.62%                      | 2   | 0.05% | 243 | 5.88%  |
| CD1257-40Q | Fortify Assura" $VR^{\dagger}$          | 5,079       | 15.20%                     | 2   | 0.04%           | 0   | 0.00%            | 4   | 0.08%  | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 166 | 3.27%                      | 1   | 0.02% | 173 | 3.41%  |
| CD1257-40  | Fortify Assura $\bar{\ }VR^{\dagger}$   | 2,294       | 17.70%                     | 0   | 0.00%           | 0   | 0.00%            | 2   | 0.09%  | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 51  | 2.22%                      | 1   | 0.04% | 54  | 2.35%  |
| CD1311-36Q | Ellipse <sup>-</sup> VR                 | 4,743       | 11.10%                     | 4   | 0.08%           | 1   | 0.02%            | 0   | 0.00%  | 16  | 0.34%  | 0   | 0.00%         | 0    | 0.00%   | 0   | 0.00%                      | 5   | 0.11% | 26  | 0.55%  |
| CD1311-36  | Ellipse" VR                             | 1,621       | 13.40%                     | 2   | 0.12%           | 0   | 0.00%            | 0   | 0.00%  | 4   | 0.25%  | 1   | 0.06%         | 1    | 0.06%   | 0   | 0.00%                      | 0   | 0.00% | 8   | 0.49%  |
| CD1231-40Q | Fortify $VR^{\dagger}$                  | 16,341      | 16.70%                     | 10  | 0.06%           | 0   | 0.00%            | 49  | 0.30%  | 1   | <0.01% | 1   | <0.01%        | 0    | 0.00%   | 443 | 2.71%                      | 7   | 0.04% | 511 | 3.13%  |
| CD1231-40  | Fortify $VR^{\dagger}$                  | 6,782       | 18.00%                     | 6   | 0.09%           | 0   | 0.00%            | 14  | 0.21%  | 4   | 0.06%  | 0   | 0.00%         | 1    | 0.01%   | 148 | 2.18%                      | 6   | 0.09% | 179 | 2.64%  |
| CD1211-36Q | Current + VR                            | 4,792       | 25.60%                     | 3   | 0.06%           | 0   | 0.00%            | 3   | 0.06%  | 0   | 0.00%  | 3   | 0.06%         | 1    | 0.02%   | 2   | 0.04%                      | 2   | 0.04% | 14  | 0.29%  |
| CD1211-36  | Current + VR                            | 3,641       | 24.30%                     | 3   | 0.08%           | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00%  | 5   | 0.14%         | 0    | 0.00%   | 2   | 0.05%                      | 1   | 0.03% | 11  | 0.30%  |

Definitions of malfunction categories can be found on pages 5-6. †Premature battery depletion advisory population.

Worldwide Malfunction Summary

#### WITH COMPROMISED THERAPY

|            |                         | WORLWIDE | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>ONENT |     | TRICAL<br>ONNECT | BAT | TERY  |     | OLTAGE |     | WARE/  | месн | ANICAL | BAT | LE EARLY<br>TERY<br>ETION | от  | HER   | тот | <b>TAL</b> |
|------------|-------------------------|----------|----------------------------|-----|-----------------|-----|------------------|-----|-------|-----|--------|-----|--------|------|--------|-----|---------------------------|-----|-------|-----|------------|
| MODELS     | FAMILY                  | SALES    | ANALYSIS                   | QTY | RATE            | QTY | RATE             | QTY | RATE  | QTY | RATE   | QTY | RATE   | QTY  | RATE   | QTY | RATE                      | QTY | RATE  | QTY | RATE       |
| CDVRA500Q  | Gallant <sup>¯</sup> VR | 25,663   | 1.00%                      | 0   | 0.00%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%  | 0    | 0.00%  | 0   | 0.00%                     | 0   | 0.00% | 0   | 0.00%      |
| CD1411-36Q | Ellipse" VR             | 24,821   | 6.19%                      | 10  | 0.04%           | 0   | 0.00%            | 0   | 0.00% | 10  | 0.04%  | 0   | 0.00%  | 0    | 0.00%  | 0   | 0.00%                     | 4   | 0.02% | 24  | 0.10%      |
| CD1411-36C | Ellipse" VR             | 7,590    | 8.70%                      | 0   | 0.00%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%  | 0    | 0.00%  | 0   | 0.00%                     | 0   | 0.00% | 0   | 0.00%      |
| CD1357-40Q | Fortify Assura" VR      | 37,201   | 9.42%                      | 14  | 0.04%           | 6   | 0.02%            | 0   | 0.00% | 2   | <0.01% | 2   | <0.01% | 0    | 0.00%  | 136 | 0.37%                     | 14  | 0.04% | 174 | 0.47%      |
| CD1357-40C | Fortify Assura" VR      | 10,631   | 12.94%                     | 6   | 0.06%           | 2   | 0.02%            | 0   | 0.00% | 1   | <0.01% | 0   | 0.00%  | 2    | 0.02%  | 18  | 0.17%                     | 0   | 0.00% | 29  | 0.27%      |
| CD1257-40Q | Fortify Assura" VR      | 5,038    | 15.74%                     | 2   | 0.04%           | 2   | 0.04%            | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%  | 0    | 0.00%  | 40  | 0.79%                     | 2   | 0.04% | 46  | 0.91%      |
| CD1257-40  | Fortify Assura" VR      | 2,298    | 18.41%                     | 4   | 0.17%           | 4   | 0.17%            | 2   | 0.09% | 0   | 0.00%  | 0   | 0.00%  | 0    | 0.00%  | 14  | 0.61%                     | 4   | 0.17% | 28  | 1.22%      |
| CD1311-36Q | Ellipse <sup>®</sup> VR | 4,912    | 11.36%                     | 6   | 0.12%           | 0   | 0.00%            | 0   | 0.00% | 38  | 0.77%  | 2   | 0.04%  | 2    | 0.04%  | 0   | 0.00%                     | 2   | 0.04% | 50  | 1.02%      |
| CD1311-36  | Ellipse <sup>®</sup> VR | 1,628    | 15.23%                     | 8   | 0.49%           | 2   | 0.12%            | 0   | 0.00% | 9   | 0.55%  | 0   | 0.00%  | 4    | 0.25%  | 0   | 0.00%                     | 4   | 0.25% | 27  | 1.66%      |
| CD1231-40Q | Fortify $VR^{\dagger}$  | 18,627   | 15.45%                     | 16  | 0.09%           | 4   | 0.02%            | 36  | 0.19% | 2   | 0.01%  | 0   | 0.00%  | 0    | 0.00%  | 290 | 1.56%                     | 18  | 0.10% | 366 | 1.96%      |
| CD1231-40  | Fortify $VR^{\dagger}$  | 11,859   | 11.45%                     | 18  | 0.15%           | 0   | 0.00%            | 10  | 0.08% | 10  | 0.08%  | 0   | 0.00%  | 0    | 0.00%  | 96  | 0.81%                     | 12  | 0.10% | 146 | 1.23%      |
| CD1211-36Q | Current" + VR           | 16,551   | 8.38%                      | 30  | 0.18%           | 6   | 0.04%            | 18  | 0.11% | 7   | 0.04%  | 0   | 0.00%  | 0    | 0.00%  | 16  | 0.10%                     | 16  | 0.10% | 93  | 0.56%      |
| CD1211-36  | Current" + VR           | 14,877   | 6.83%                      | 10  | 0.07%           | 8   | 0.05%            | 10  | 0.07% | 6   | 0.04%  | 0   | 0.00%  | 0    | 0.00%  | 22  | 0.15%                     | 22  | 0.15% | 78  | 0.52%      |
|            |                         |          |                            |     |                 |     |                  |     |       |     |        |     |        |      |        |     |                           |     |       |     |            |

Worldwide Malfunction Summary

#### WITHOUT COMPROMISED THERAPY

|            |                                | WORLWIDE | PERCENT<br>RETURNED<br>FOR | ELECT<br>COMP | RICAL |     | TRICAL<br>ONNECT | BAT | TERY  |     | OLTAGE |     | WARE/<br>WARE | MECH | ANICAL | BAT  | LE EARLY<br>TERY<br>ETION | от  | HER   | тот  | TAL   |
|------------|--------------------------------|----------|----------------------------|---------------|-------|-----|------------------|-----|-------|-----|--------|-----|---------------|------|--------|------|---------------------------|-----|-------|------|-------|
| MODELS     | FAMILY                         | SALES    | ANALYSIS                   | QTY           | RATE  | QTY | RATE             | QTY | RATE  | QTY | RATE   | QTY | RATE          | QTY  | RATE   | QTY  | RATE                      | QTY | RATE  | QTY  | RATE  |
| CDVRA500Q  | Gallant <sup>®</sup> VR        | 25,663   | 1.00%                      | 8             | 0.03% | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%  | 0   | 0.00%         | 2    | <0.01% | 0    | 0.00%                     | 0   | 0.00% | 10   | 0.04% |
| CD1411-36Q | Ellipse" VR                    | 24,821   | 6.19%                      | 16            | 0.06% | 0   | 0.00%            | 4   | 0.02% | 6   | 0.02%  | 2   | <0.01%        | 6    | 0.02%  | 4    | 0.02%                     | 10  | 0.04% | 48   | 0.19% |
| CD1411-36C | Ellipse" VR                    | 7,590    | 8.70%                      | 12            | 0.16% | 0   | 0.00%            | 0   | 0.00% | 1   | 0.01%  | 0   | 0.00%         | 2    | 0.03%  | 2    | 0.03%                     | 4   | 0.05% | 21   | 0.28% |
| CD1357-40Q | Fortify Assura <sup>¬</sup> VR | 37,201   | 9.42%                      | 30            | 0.08% | 0   | 0.00%            | 20  | 0.05% | 0   | 0.00%  | 2   | <0.01%        | 2    | <0.01% | 1472 | 3.96%                     | 18  | 0.05% | 1544 | 4.15% |
| CD1357-40C | Fortify Assura" VR             | 10,631   | 12.94%                     | 10            | 0.09% | 0   | 0.00%            | 12  | 0.11% | 0   | 0.00%  | 2   | 0.02%         | 2    | 0.02%  | 468  | 4.40%                     | 6   | 0.06% | 500  | 4.70% |
| CD1257-40Q | Fortify Assura" VR             | 5,038    | 15.74%                     | 4             | 0.08% | 0   | 0.00%            | 8   | 0.16% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 332  | 6.59%                     | 2   | 0.04% | 346  | 6.87% |
| CD1257-40  | Fortify Assura" VR             | 2,298    | 18.41%                     | 0             | 0.00% | 0   | 0.00%            | 4   | 0.17% | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%  | 102  | 4.44%                     | 2   | 0.09% | 108  | 4.70% |
| CD1311-36Q | Ellipse <sup>°</sup> VR        | 4,912    | 11.36%                     | 8             | 0.16% | 2   | 0.04%            | 0   | 0.00% | 16  | 0.33%  | 0   | 0.00%         | 0    | 0.00%  | 0    | 0.00%                     | 10  | 0.20% | 36   | 0.73% |
| CD1311-36  | Ellipse <sup>°</sup> VR        | 1,628    | 15.23%                     | 4             | 0.25% | 0   | 0.00%            | 0   | 0.00% | 4   | 0.25%  | 2   | 0.12%         | 2    | 0.12%  | 0    | 0.00%                     | 0   | 0.00% | 12   | 0.74% |
| CD1231-40Q | Fortify $VR^+$                 | 18,627   | 15.45%                     | 26            | 0.14% | 2   | 0.01%            | 98  | 0.53% | 1   | <0.01% | 2   | 0.01%         | 0    | 0.00%  | 976  | 5.24%                     | 14  | 0.08% | 1119 | 6.01% |
| CD1231-40  | Fortify $VR^{\dagger}$         | 11,859   | 11.45%                     | 14            | 0.12% | 0   | 0.00%            | 30  | 0.25% | 4   | 0.03%  | 0   | 0.00%         | 2    | 0.02%  | 326  | 2.75%                     | 12  | 0.10% | 388  | 3.27% |
| CD1211-36Q | Current" + VR                  | 16,551   | 8.38%                      | 20            | 0.12% | 0   | 0.00%            | 16  | 0.10% | 3   | 0.02%  | 6   | 0.04%         | 2    | 0.01%  | 18   | 0.11%                     | 28  | 0.17% | 93   | 0.56% |
| CD1211-36  | Current" + VR                  | 14,877   | 6.83%                      | 16            | 0.11% | 0   | 0.00%            | 6   | 0.04% | 0   | 0.00%  | 18  | 0.12%         | 0    | 0.00%  | 12   | 0.08%                     | 16  | 0.11% | 68   | 0.46% |

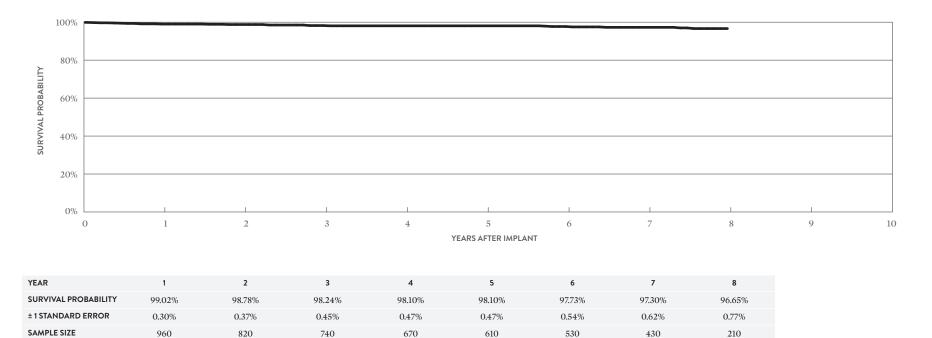
Definitions of malfunction categories can be found on pages 5-6.

## Optisure<sup>™</sup> DF4 MODEL LDA230Q

| US Regulatory Approval                   | February 2014     |
|--|-------------------|
| Registered US Implants                   | 1,063             |
| Estimated Active US Implants             | 541               |
| Insulation                               | Optim*            |
| Type and/or Fixation                     | Dual Coil, Active |
| Polarity                                 | Bipolar           |
| Steroid                                  | Yes               |
| Number of US Advisories<br>(see pg. 223) | One               |
|  |                   |

| ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |   | CHRONIC COMPLICATIO<br>(>30 DAYS)   |   |
|--|---|---|---|
| QTY  | RATE  | QTY   | RATE  |
| 1  | 0.09%   | 0   | 0.00%   |
| 0  | 0.00%   | 0   | 0.00%   |
| 1  | 0.09%   | 3   | 0.28%   |
| 0  | 0.00%   | 7   | 0.66%   |
| 0  | 0.00%   | 8   | 0.75%   |
| 0  | 0.00%   | 1   | 0.09%   |
| 0  | 0.00%   | 0   | 0.00%   |
| 1  | 0.09%   | 1   | 0.09%   |
| 0  | 0.00%   | 0   | 0.00%   |
| 1  | 0.09%   | 0   | 0.00%   |
| 0  | 0.00%   | 0   | 0.00%   |
| 4  | 0.38%   | 20  | 1.88%   |
| 1  |   | 8   |   |
|  | (POST IMPLA<br>QTY<br>1<br>0<br>1<br>0<br>0<br>0<br>0<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>4 | CPOST IMPLANT, ≤30 DAYS)           QTY         RATE           1         0.09%           0         0.00%           1         0.09%           0         0.00%           0         0.00%           0         0.00%           0         0.00%           0         0.00%           0         0.00%           1         0.09%           0         0.00%           1         0.09%           0         0.00%           1         0.09%           0         0.00%           4         0.38% | (POST IMPLANT,≤30 DAYS)         (>30           QTY         RATE         QTY           1         0.09%         0           0         0.00%         0           1         0.09%         3           0         0.00%         7           0         0.00%         7           0         0.00%         8           0         0.00%         1           0         0.00%         0           1         0.09%         1           0         0.00%         0           1         0.09%         0           1         0.09%         0           0         0.00%         0           1         0.09%         0           0         0.00%         0           1         0.09%         0           0         0.00%         0           1         0.09%         0           0         0.00%         0           1         0.09%         0 |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 1   | 0.09% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 0   | 0.00% |
| Intravascular           | 1   | 0.09% |
| Insulation Breach       | 3   | 0.28% |
| Lead-to-Can Contact     | 1   | 0.09% |
| Lead-to-Lead Contact    | 0   | 0.00% |
| Clavicular Crush        | 1   | 0.09% |
| Externalized Conductors | 0   | 0.00% |
| Other                   | 1   | 0.09% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Extrinsic Factors       | 8   | 0.75% |
| Total                   | 12  | 1.13% |

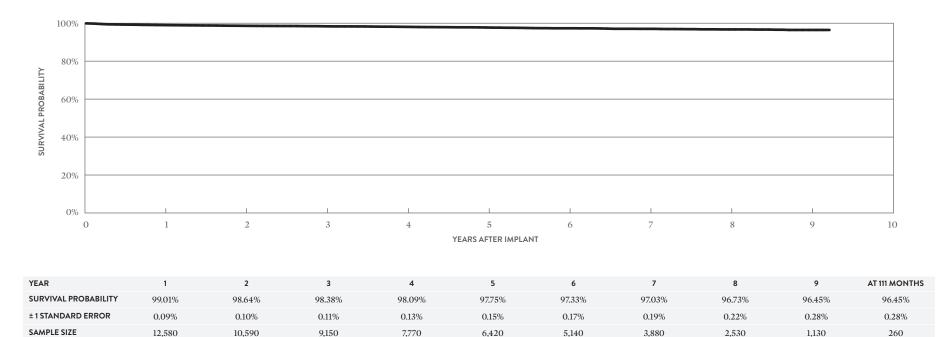


## Optisure<sup>™</sup> DF4 MODEL LDA220Q

| US Regulatory Approval                   | February 2014     |
|--|-------------------|
| Registered US Implants                   | 13,811            |
| Estimated Active US Implants             | 7,824             |
| Insulation                               | Optim"*           |
| Type and/or Fixation                     | Dual Coil, Active |
| Polarity                                 | Bipolar           |
| Steroid                                  | Yes               |
| Number of US Advisories<br>(see pg. 223) | One               |
|  |                   |

|                                   |     | SERVATIONS<br>NT, ≤30 DAYS) |     | MPLICATIONS<br>DAYS) |
|-----------------------------------|-----|-----------------------------|-----|----------------------|
|                                   | QTY | RATE                        | QTY | RATE                 |
| Cardiac Perforation               | 15  | 0.11%                       | 5   | 0.04%                |
| Conductor Fracture                | 0   | 0.00%                       | 8   | 0.06%                |
| Lead Dislodgement                 | 59  | 0.43%                       | 88  | 0.64%                |
| Failure to Capture                | 28  | 0.20%                       | 96  | 0.70%                |
| Oversensing                       | 5   | 0.04%                       | 83  | 0.60%                |
| Failure to Sense                  | 2   | 0.01%                       | 10  | 0.07%                |
| Insulation Breach                 | 0   | 0.00%                       | 2   | 0.01%                |
| Abnormal Pacing Impedance         | 0   | 0.00%                       | 17  | 0.12%                |
| Abnormal Defibrillation Impedance | 5   | 0.04%                       | 23  | 0.17%                |
| Extracardiac Stimulation          | 1   | <0.01%                      | 0   | 0.00%                |
| Other                             | 6   | 0.04%                       | 8   | 0.06%                |
| Total                             | 121 | 0.88%                       | 340 | 2.46%                |
| Total Returned for Analysis       | 46  |                             | 89  |                      |

| MALFUNCTIONS            | QTY | RATE   |
|-------------------------|-----|--------|
| Conductor Fracture      | 1   | <0.01% |
| Clavicular Crush        | 0   | 0.00%  |
| In the Pocket           | 0   | 0.00%  |
| Intravascular           | 1   | <0.01% |
| Insulation Breach       | 7   | 0.05%  |
| Lead-to-Can Contact     | 2   | 0.01%  |
| Lead-to-Lead Contact    | 0   | 0.00%  |
| Clavicular Crush        | 2   | 0.01%  |
| Externalized Conductors | 0   | 0.00%  |
| Other                   | 3   | 0.02%  |
| Crimps, Welds & Bonds   | 0   | 0.00%  |
| Other                   | 0   | 0.00%  |
| Extrinsic Factors       | 83  | 0.60%  |
| Total                   | 91  | 0.66%  |

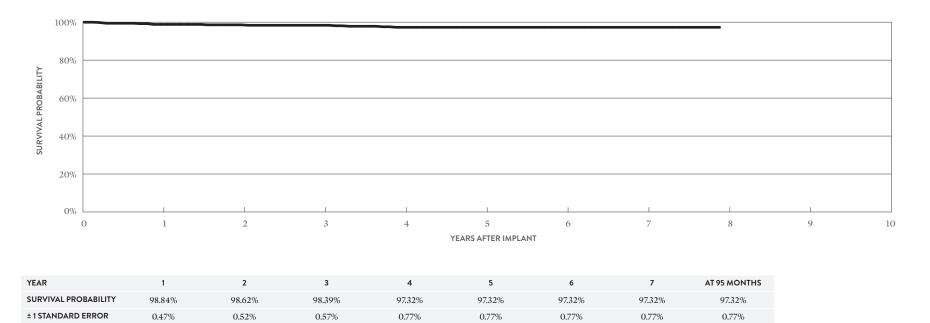


## Optisure<sup>™</sup> MODEL LDA220

| US Regulatory Approval                   | February 2014     |
|--|-------------------|
| Registered US Implants                   | 637               |
| Estimated Active US Implants             | 314               |
| Insulation                               | Optim"*           |
| Type and/or Fixation                     | Dual Coil, Active |
| Polarity                                 | Bipolar           |
| Steroid                                  | Yes               |
| Number of US Advisories<br>(see pg. 223) | One               |
|  |                   |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |       | CHRONIC COMPLICATIO<br>(>30 DAYS) |       |
|-----------------------------------|--|-------|-----------------------------------|-------|
|                                   | QTY  | RATE  | QTY                               | RATE  |
| Cardiac Perforation               | 1  | 0.16% | 0                                 | 0.00% |
| Conductor Fracture                | 0  | 0.00% | 0                                 | 0.00% |
| Lead Dislodgement                 | 0  | 0.00% | 5                                 | 0.78% |
| Failure to Capture                | 0  | 0.00% | 3                                 | 0.47% |
| Oversensing                       | 0  | 0.00% | 6                                 | 0.94% |
| Failure to Sense                  | 0  | 0.00% | 0                                 | 0.00% |
| Insulation Breach                 | 0  | 0.00% | 0                                 | 0.00% |
| Abnormal Pacing Impedance         | 0  | 0.00% | 3                                 | 0.47% |
| Abnormal Defibrillation Impedance | 0  | 0.00% | 1                                 | 0.16% |
| Extracardiac Stimulation          | 0  | 0.00% | 0                                 | 0.00% |
| Other                             | 0  | 0.00% | 0                                 | 0.00% |
| Total                             | 1  | 0.16% | 18                                | 2.83% |
| Total Returned for Analysis       | 0  |       | 4                                 |       |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 0   | 0.00% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 0   | 0.00% |
| Intravascular           | 0   | 0.00% |
| Insulation Breach       | 0   | 0.00% |
| Lead-to-Can Contact     | 0   | 0.00% |
| Lead-to-Lead Contact    | 0   | 0.00% |
| Clavicular Crush        | 0   | 0.00% |
| Externalized Conductors | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Extrinsic Factors       | 6   | 0.94% |
| Total                   | 6   | 0.94% |



340

310

270

200

\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

560

460

410

370

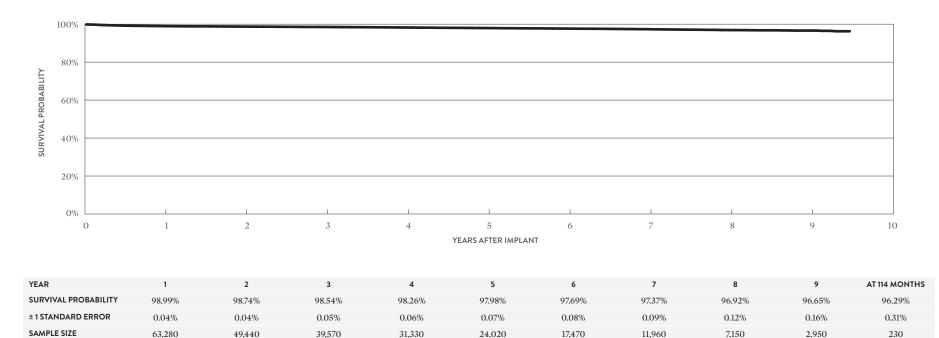
SAMPLE SIZE

## **Optisure**<sup>™</sup> **DF4** MODEL LDA210Q

| US Regulatory Approval       | February 2014       |
|------------------------------|---------------------|
| Registered US Implants       | 71,740              |
| Estimated Active US Implants | 43,528              |
| Insulation                   | Optim"*             |
| Type and/or Fixation         | Single Coil, Active |
| Polarity                     | Bipolar             |
| Steroid                      | Yes                 |
| Number of US Advisories      | None                |
|                              |                     |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        | CHRONIC COMPLICATION<br>(>30 DAYS) |        |
|-----------------------------------|--|--------|------------------------------------|--------|
|                                   | QTY  | RATE   | QTY                                | RATE   |
| Cardiac Perforation               | 135  | 0.19%  | 37                                 | 0.05%  |
| Conductor Fracture                | 2  | <0.01% | 33                                 | 0.05%  |
| Lead Dislodgement                 | 235  | 0.33%  | 423                                | 0.59%  |
| Failure to Capture                | 134  | 0.19%  | 343                                | 0.48%  |
| Oversensing                       | 49   | 0.07%  | 291                                | 0.41%  |
| Failure to Sense                  | 17   | 0.02%  | 32                                 | 0.04%  |
| Insulation Breach                 | 5  | <0.01% | 2                                  | <0.01% |
| Abnormal Pacing Impedance         | 9  | 0.01%  | 66                                 | 0.09%  |
| Abnormal Defibrillation Impedance | 12   | 0.02%  | 60                                 | 0.08%  |
| Extracardiac Stimulation          | 6  | <0.01% | 6                                  | <0.01% |
| Other                             | 20   | 0.03%  | 47                                 | 0.07%  |
| Total                             | 624  | 0.87%  | 1340                               | 1.87%  |
| Total Returned for Analysis       | 218  |        | 442                                |        |

| MALFUNCTIONS            | QTY | RATE    |
|-------------------------|-----|---------|
| Conductor Fracture      | 8   | 0.01%   |
| Clavicular Crush        | 1   | < 0.01% |
| In the Pocket           | 2   | < 0.01% |
| Intravascular           | 5   | < 0.01% |
| Insulation Breach       | 25  | 0.03%   |
| Lead-to-Can Contact     | 14  | 0.02%   |
| Lead-to-Lead Contact    | 9   | 0.01%   |
| Clavicular Crush        | 1   | < 0.01% |
| Externalized Conductors | 0   | 0.00%   |
| Other                   | 1   | < 0.01% |
| Crimps, Welds & Bonds   | 0   | 0.00%   |
| Other                   | 5   | <0.01%  |
| Extrinsic Factors       | 425 | 0.59%   |
| Total                   | 463 | 0.65%   |



24,020

17,470

11,960

7,150

2,950

230

\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

49,440

39,570

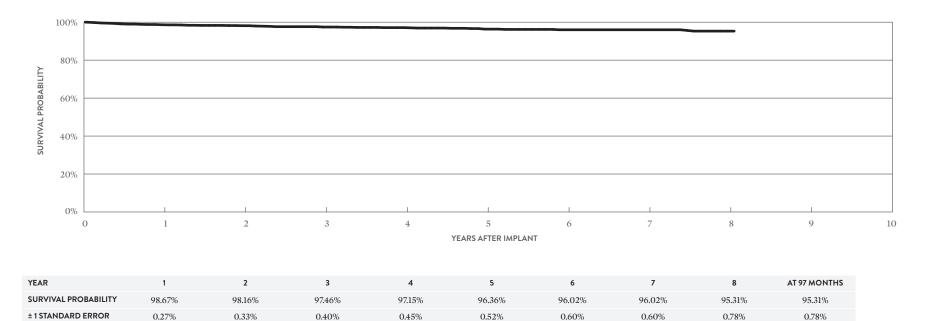
31,330

## Optisure<sup>™</sup> MODEL LDA210

| US Regulatory Approval       | February 2014       |
|------------------------------|---------------------|
| Registered US Implants       | 1,907               |
| Estimated Active US Implants | 1,075               |
| Insulation                   | Optim"*             |
| Type and/or Fixation         | Single Coil, Active |
| Polarity                     | Bipolar             |
| Steroid                      | Yes                 |
| Number of US Advisories      | None                |
|                              |                     |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |       |     | MPLICATIONS<br>DAYS) |
|-----------------------------------|--|-------|-----|----------------------|
|                                   | QTY  | RATE  | QTY | RATE                 |
| Cardiac Perforation               | 3  | 0.16% | 0   | 0.00%                |
| Conductor Fracture                | 0  | 0.00% | 5   | 0.26%                |
| Lead Dislodgement                 | 7  | 0.37% | 10  | 0.52%                |
| Failure to Capture                | 3  | 0.16% | 14  | 0.73%                |
| Oversensing                       | 3  | 0.16% | 27  | 1.42%                |
| Failure to Sense                  | 0  | 0.00% | 0   | 0.00%                |
| Insulation Breach                 | 0  | 0.00% | 0   | 0.00%                |
| Abnormal Pacing Impedance         | 0  | 0.00% | 6   | 0.31%                |
| Abnormal Defibrillation Impedance | 0  | 0.00% | 2   | 0.10%                |
| Extracardiac Stimulation          | 0  | 0.00% | 2   | 0.10%                |
| Other                             | 1  | 0.05% | 2   | 0.10%                |
| Total                             | 17   | 0.89% | 68  | 3.57%                |
| Total Returned for Analysis       | 6  |       | 15  |                      |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 0   | 0.00% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 0   | 0.00% |
| Intravascular           | 0   | 0.00% |
| Insulation Breach       | 1   | 0.05% |
| Lead-to-Can Contact     | 0   | 0.00% |
| Lead-to-Lead Contact    | 1   | 0.05% |
| Clavicular Crush        | 0   | 0.00% |
| Externalized Conductors | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Extrinsic Factors       | 16  | 0.84% |
| Total                   | 17  | 0.89% |



750

580

420

280

210

\*Optim™ lead insulation is a copolymer of silicone and polyurethane.

1,340

1,120

930

ABBOTT PRODUCT PERFORMANCE REPORT 2024 FIRST EDITION / PAGE 124

1,680

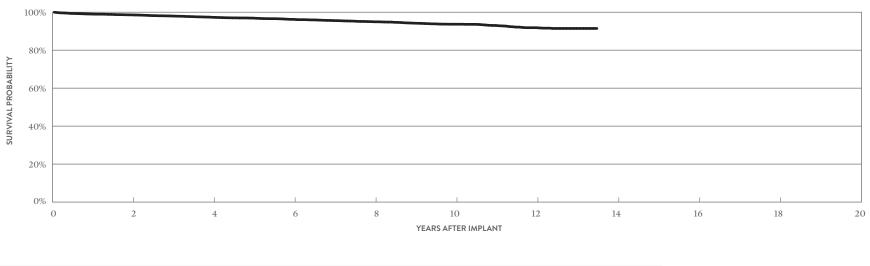
SAMPLE SIZE

# Durata<sup>™</sup> DF4 MODELS 7170Q & 7171Q

| US Regulatory Approval       | July 2009          |
|------------------------------|--------------------|
| Registered US Implants       | 7,317              |
| Estimated Active US Implants | 2,862              |
| Insulation                   | Optim"*            |
| Type and/or Fixation         | Dual Coil, Passive |
| Polarity                     | Bipolar            |
| Steroid                      | Yes                |
| Number of US Advisories      | None               |
|                              |                    |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |       |     | DMPLICATIONS<br>DAYS) |
|-----------------------------------|--|-------|-----|-----------------------|
|                                   | QTY  | RATE  | QTY | RATE                  |
| Cardiac Perforation               | 6  | 0.08% | 8   | 0.11%                 |
| Conductor Fracture                | 1  | 0.01% | 34  | 0.46%                 |
| Lead Dislodgement                 | 22   | 0.30% | 38  | 0.52%                 |
| Failure to Capture                | 14   | 0.19% | 92  | 1.26%                 |
| Oversensing                       | 3  | 0.04% | 83  | 1.13%                 |
| Failure to Sense                  | 0  | 0.00% | 2   | 0.03%                 |
| Insulation Breach                 | 0  | 0.00% | 6   | 0.08%                 |
| Abnormal Pacing Impedance         | 1  | 0.01% | 31  | 0.42%                 |
| Abnormal Defibrillation Impedance | 0  | 0.00% | 24  | 0.33%                 |
| Extracardiac Stimulation          | 1  | 0.01% | 0   | 0.00%                 |
| Other                             | 1  | 0.01% | 4   | 0.05%                 |
| Total                             | 49   | 0.67% | 322 | 4.40%                 |
| Total Returned for Analysis       | 22   |       | 78  |                       |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 6   | 0.08% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 3   | 0.04% |
| Intravascular           | 3   | 0.04% |
| Insulation Breach       | 17  | 0.23% |
| Lead-to-Can Contact     | 9   | 0.12% |
| Lead-to-Lead Contact    | 5   | 0.07% |
| Clavicular Crush        | 1   | 0.01% |
| Externalized Conductors | 0   | 0.00% |
| Other                   | 2   | 0.03% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Extrinsic Factors       | 60  | 0.82% |
| Total                   | 83  | 1.13% |



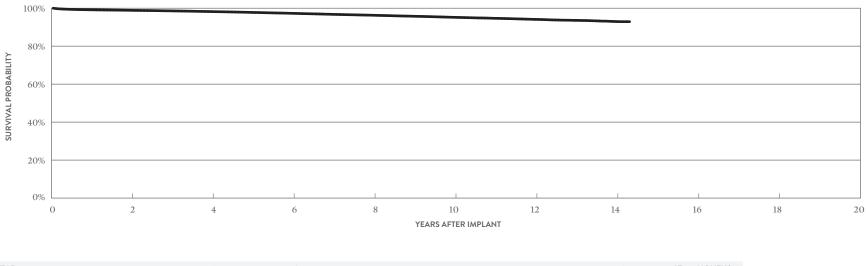
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 162 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.59% | 97.31% | 96.24% | 94.95% | 93.67% | 91.84% | 91.44%        |
| ± 1 STANDARD ERROR   | 0.15%  | 0.21%  | 0.27%  | 0.33%  | 0.41%  | 0.56%  | 0.60%         |
| SAMPLE SIZE          | 5,830  | 4,660  | 3,660  | 2,740  | 1,870  | 960    | 210           |

# Durata<sup>™</sup> DF4 MODELS 7120Q & 7121Q

| US Regulatory Approval       | January 2009      |
|------------------------------|-------------------|
| Registered US Implants       | 147,605           |
| Estimated Active US Implants | 56,992            |
| Insulation                   | Optim"*           |
| Type and/or Fixation         | Dual Coil, Active |
| Polarity                     | Bipolar           |
| Steroid                      | Yes               |
| Number of US Advisories      | None              |
|                              |                   |

| ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |  |  | MPLICATIONS<br>DAYS)  |
|--|--|--|---|
| QTY  | RATE   | QTY  | RATE  |
| 109  | 0.07%  | 52   | 0.04%   |
| 2  | < 0.01%  | 302  | 0.20%   |
| 310  | 0.21%  | 749  | 0.51%   |
| 147  | 0.10%  | 1258   | 0.85%   |
| 55   | 0.04%  | 1341   | 0.91%   |
| 17   | 0.01%  | 117  | 0.08%   |
| 0  | 0.00%  | 85   | 0.06%   |
| 7  | <0.01%   | 290  | 0.20%   |
| 11   | <0.01%   | 622  | 0.42%   |
| 7  | <0.01%   | 10   | <0.01%  |
| 45   | 0.03%  | 117  | 0.08%   |
| 710  | 0.48%  | 4943   | 3.35%   |
| 345  |  | 1335   |   |
|  | (POST IMPL/<br>QTY<br>109<br>2<br>310<br>147<br>55<br>17<br>0<br>7<br>11<br>7<br>45<br>710 | (POST IMPLANT, ≤30 DAYS)           QTY         RATE           109         0.07%           2         <0.01% | (POST IMPLANT, ≤30 DAYS)         G30           QTY         RATE         QTY           109         0.07%         52           2         <0.01% |

| MALFUNCTIONS            | QTY  | RATE    |
|-------------------------|------|---------|
| Conductor Fracture      | 41   | 0.03%   |
| Clavicular Crush        | 7    | <0.01%  |
| In the Pocket           | 13   | < 0.01% |
| Intravascular           | 21   | 0.01%   |
| Insulation Breach       | 422  | 0.29%   |
| Lead-to-Can Contact     | 253  | 0.17%   |
| Lead-to-Lead Contact    | 45   | 0.03%   |
| Clavicular Crush        | 37   | 0.03%   |
| Externalized Conductors | 0    | 0.00%   |
| Other                   | 87   | 0.06%   |
| Crimps, Welds & Bonds   | 2    | < 0.01% |
| Other                   | 39   | 0.03%   |
| Extrinsic Factors       | 1045 | 0.71%   |
| Total                   | 1549 | 1.05%   |



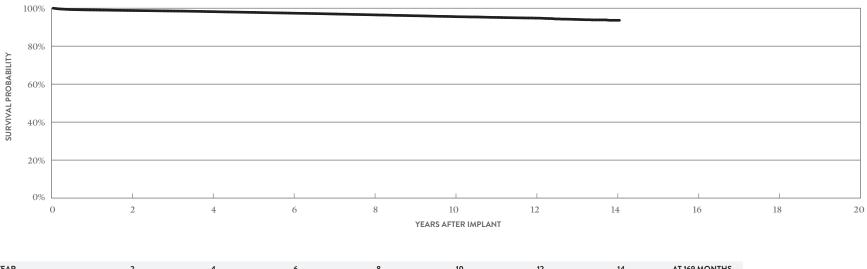
| YEAR                 | 2       | 4      | 6      | 8      | 10     | 12     | 14     | AT 172 MONTHS |
|----------------------|---------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.88%  | 98.21% | 97.29% | 96.28% | 95.20% | 94.10% | 92.98% | 92.91%        |
| ± 1 STANDARD ERROR   | 0.03%   | 0.04%  | 0.05%  | 0.06%  | 0.08%  | 0.10%  | 0.15%  | 0.17%         |
| SAMPLE SIZE          | 120,150 | 96,930 | 77,680 | 61,120 | 43,740 | 24,720 | 5,950  | 400           |

# Durata<sup>™</sup> DF4 MODEL 7122Q

| τ | US Regulatory Approval       | January 2009        |
|---|------------------------------|---------------------|
| F | Registered US Implants       | 174,733             |
| H | Estimated Active US Implants | 87,746              |
| Ι | nsulation                    | Optim"*             |
| 1 | Гуре and/or Fixation         | Single Coil, Active |
| I | Polarity                     | Bipolar             |
| S | Steroid                      | Yes                 |
| ľ | Number of US Advisories      | None                |
|   |                              |                     |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |         |      | MPLICATIONS<br>DAYS) |
|-----------------------------------|--|---------|------|----------------------|
|                                   | QTY  | RATE    | QTY  | RATE                 |
| Cardiac Perforation               | 233  | 0.13%   | 78   | 0.04%                |
| Conductor Fracture                | 4  | < 0.01% | 146  | 0.08%                |
| Lead Dislodgement                 | 452  | 0.26%   | 944  | 0.54%                |
| Failure to Capture                | 254  | 0.15%   | 1041 | 0.60%                |
| Oversensing                       | 79   | 0.05%   | 959  | 0.55%                |
| Failure to Sense                  | 17   | <0.01%  | 90   | 0.05%                |
| Insulation Breach                 | 2  | <0.01%  | 54   | 0.03%                |
| Abnormal Pacing Impedance         | 18   | 0.01%   | 225  | 0.13%                |
| Abnormal Defibrillation Impedance | 14   | <0.01%  | 209  | 0.12%                |
| Extracardiac Stimulation          | 5  | <0.01%  | 15   | <0.01%               |
| Other                             | 57   | 0.03%   | 134  | 0.08%                |
| Total                             | 1135   | 0.65%   | 3895 | 2.23%                |
| Total Returned for Analysis       | 457  |         | 1264 |                      |

| MALFUNCTIONS            | QTY  | RATE    |
|-------------------------|------|---------|
| Conductor Fracture      | 26   | 0.01%   |
| Clavicular Crush        | 4    | < 0.01% |
| In the Pocket           | 10   | < 0.01% |
| Intravascular           | 12   | < 0.01% |
| Insulation Breach       | 289  | 0.17%   |
| Lead-to-Can Contact     | 180  | 0.10%   |
| Lead-to-Lead Contact    | 43   | 0.02%   |
| Clavicular Crush        | 22   | 0.01%   |
| Externalized Conductors | 0    | 0.00%   |
| Other                   | 44   | 0.03%   |
| Crimps, Welds & Bonds   | 1    | < 0.01% |
| Other                   | 22   | 0.01%   |
| Extrinsic Factors       | 1075 | 0.62%   |
| Total                   | 1413 | 0.81%   |



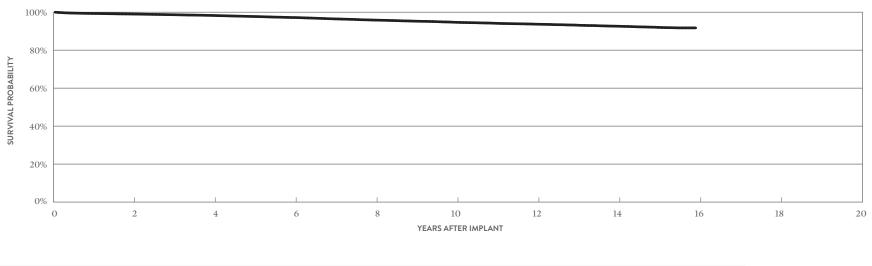
| YEAR                 | 2       | 4      | 6      | 8      | 10     | 12     | 14     | AT 169 MONTHS |
|----------------------|---------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.80%  | 98.19% | 97.38% | 96.50% | 95.56% | 94.78% | 93.63% | 93.63%        |
| ± 1 STANDARD ERROR   | 0.03%   | 0.04%  | 0.05%  | 0.07%  | 0.09%  | 0.13%  | 0.32%  | 0.32%         |
| SAMPLE SIZE          | 125,860 | 87,080 | 58,660 | 37,280 | 18,980 | 6,340  | 1,040  | 240           |

## Durata™ MODELS 7120 & 7121

| US Regulatory Approval       | September 2007    |
|------------------------------|-------------------|
| Registered US Implants       | 63,479            |
| Estimated Active US Implants | 17,832            |
| Insulation                   | Optim"*           |
| Type and/or Fixation         | Dual Coil, Active |
| Polarity                     | Bipolar           |
| Steroid                      | Yes               |
| Number of US Advisories      | None              |
|                              |                   |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |         | CHRONIC COMPLICATIONS<br>(>30 DAYS) |         |
|-----------------------------------|--|---------|-------------------------------------|---------|
|                                   | QTY  | RATE    | QTY                                 | RATE    |
| Cardiac Perforation               | 41   | 0.06%   | 19                                  | 0.03%   |
| Conductor Fracture                | 2  | < 0.01% | 192                                 | 0.30%   |
| Lead Dislodgement                 | 70   | 0.11%   | 192                                 | 0.30%   |
| Failure to Capture                | 26   | 0.04%   | 465                                 | 0.73%   |
| Oversensing                       | 51   | 0.08%   | 999                                 | 1.57%   |
| Failure to Sense                  | 5  | < 0.01% | 73                                  | 0.11%   |
| Insulation Breach                 | 0  | 0.00%   | 79                                  | 0.12%   |
| Abnormal Pacing Impedance         | 2  | < 0.01% | 249                                 | 0.39%   |
| Abnormal Defibrillation Impedance | 21   | 0.03%   | 406                                 | 0.64%   |
| Extracardiac Stimulation          | 0  | 0.00%   | 3                                   | < 0.01% |
| Other                             | 21   | 0.03%   | 65                                  | 0.10%   |
| Total                             | 239  | 0.38%   | 2742                                | 4.32%   |
| Total Returned for Analysis       | 93   |         | 657                                 |         |

| MALFUNCTIONS            | QTY | RATE    |
|-------------------------|-----|---------|
| Conductor Fracture      | 35  | 0.06%   |
| Clavicular Crush        | 2   | < 0.01% |
| In the Pocket           | 24  | 0.04%   |
| Intravascular           | 9   | 0.01%   |
| Insulation Breach       | 246 | 0.39%   |
| Lead-to-Can Contact     | 130 | 0.20%   |
| Lead-to-Lead Contact    | 48  | 0.08%   |
| Clavicular Crush        | 19  | 0.03%   |
| Externalized Conductors | 0   | 0.00%   |
| Other                   | 49  | 0.08%   |
| Crimps, Welds & Bonds   | 1   | <0.01%  |
| Other                   | 10  | 0.02%   |
| Extrinsic Factors       | 493 | 0.78%   |
| Total                   | 785 | 1.24%   |



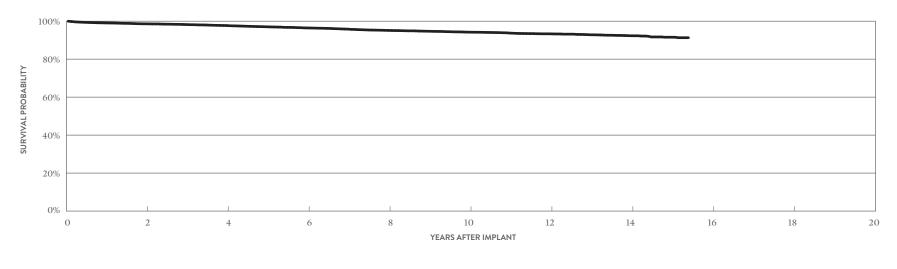
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 191 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.01% | 98.27% | 97.19% | 95.82% | 94.67% | 93.67% | 92.61% | 91.74%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.06%  | 0.08%  | 0.10%  | 0.12%  | 0.14%  | 0.16%  | 0.20%         |
| SAMPLE SIZE          | 51,160 | 41,490 | 34,140 | 28,570 | 24,290 | 20,010 | 13,780 | 260           |

## Durata<sup>™</sup> MODEL 7122

| US Regulatory Approval       | September 2007      |
|------------------------------|---------------------|
| Registered US Implants       | 16,845              |
| Estimated Active US Implants | 5,599               |
| Insulation                   | Optim"*             |
| Type and/or Fixation         | Single Coil, Active |
| Polarity                     | Bipolar             |
| Steroid                      | Yes                 |
| Number of US Advisories      | None                |
|                              |                     |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        | CHRONIC COMPLICATION<br>(>30 DAYS) |       |
|-----------------------------------|--|--------|------------------------------------|-------|
|                                   | QTY  | RATE   | QTY                                | RATE  |
| Cardiac Perforation               | 12   | 0.07%  | 5                                  | 0.03% |
| Conductor Fracture                | 1  | <0.01% | 52                                 | 0.31% |
| Lead Dislodgement                 | 24   | 0.14%  | 80                                 | 0.47% |
| Failure to Capture                | 19   | 0.11%  | 128                                | 0.76% |
| Oversensing                       | 13   | 0.08%  | 241                                | 1.43% |
| Failure to Sense                  | 0  | 0.00%  | 13                                 | 0.08% |
| Insulation Breach                 | 2  | 0.01%  | 27                                 | 0.16% |
| Abnormal Pacing Impedance         | 3  | 0.02%  | 61                                 | 0.36% |
| Abnormal Defibrillation Impedance | 3  | 0.02%  | 53                                 | 0.31% |
| Extracardiac Stimulation          | 2  | 0.01%  | 2                                  | 0.01% |
| Other                             | 4  | 0.02%  | 16                                 | 0.09% |
| Total                             | 83   | 0.49%  | 678                                | 4.02% |
| Total Returned for Analysis       | 38   |        | 214                                |       |

| MALFUNCTIONS            | QTY | RATE   |
|-------------------------|-----|--------|
| Conductor Fracture      | 18  | 0.11%  |
| Clavicular Crush        | 1   | <0.01% |
| In the Pocket           | 13  | 0.08%  |
| Intravascular           | 4   | 0.02%  |
| Insulation Breach       | 87  | 0.52%  |
| Lead-to-Can Contact     | 47  | 0.28%  |
| Lead-to-Lead Contact    | 27  | 0.16%  |
| Clavicular Crush        | 2   | 0.01%  |
| Externalized Conductors | 1   | <0.01% |
| Other                   | 10  | 0.06%  |
| Crimps, Welds & Bonds   | 0   | 0.00%  |
| Other                   | 4   | 0.02%  |
| Extrinsic Factors       | 163 | 0.97%  |
| Total                   | 272 | 1.61%  |



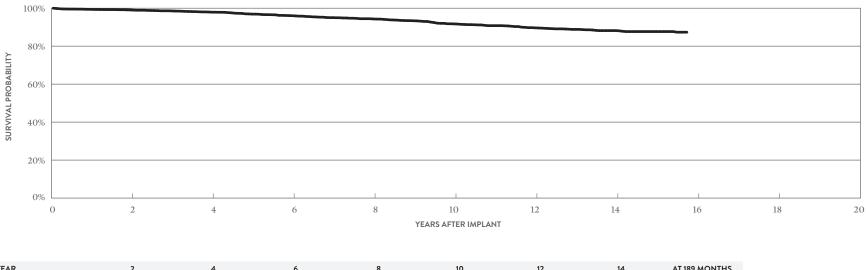
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 185 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.62% | 97.72% | 96.45% | 95.15% | 94.23% | 93.36% | 92.33% | 91.31%        |
| ± 1 STANDARD ERROR   | 0.10%  | 0.13%  | 0.17%  | 0.21%  | 0.25%  | 0.28%  | 0.35%  | 0.51%         |
| SAMPLE SIZE          | 13,560 | 10,740 | 8,570  | 6,740  | 5,040  | 3,520  | 1,860  | 210           |

## Riata<sup>™</sup> ST Optim<sup>™</sup> MODELS 7070 & 7071

| US Regulatory Approval       | July 2006          |
|------------------------------|--------------------|
| Registered US Implants       | 3,583              |
| Estimated Active US Implants | 875                |
| Insulation                   | Optim"*            |
| Type and/or Fixation         | Dual Coil, Passive |
| Polarity                     | Bipolar            |
| Steroid                      | Yes                |
| Number of US Advisories      | None               |
|                              |                    |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |       | CHRONIC COMPLICATION<br>(>30 DAYS) |       |
|-----------------------------------|--|-------|------------------------------------|-------|
|                                   | QTY  | RATE  | QTY                                | RATE  |
| Cardiac Perforation               | 3  | 0.08% | 2                                  | 0.06% |
| Conductor Fracture                | 1  | 0.03% | 29                                 | 0.81% |
| Lead Dislodgement                 | 3  | 0.08% | 13                                 | 0.36% |
| Failure to Capture                | 6  | 0.17% | 44                                 | 1.23% |
| Oversensing                       | 4  | 0.11% | 75                                 | 2.09% |
| Failure to Sense                  | 4  | 0.11% | 3                                  | 0.08% |
| Insulation Breach                 | 0  | 0.00% | 9                                  | 0.25% |
| Abnormal Pacing Impedance         | 0  | 0.00% | 18                                 | 0.50% |
| Abnormal Defibrillation Impedance | 0  | 0.00% | 22                                 | 0.61% |
| Extracardiac Stimulation          | 0  | 0.00% | 1                                  | 0.03% |
| Other                             | 0  | 0.00% | 3                                  | 0.08% |
| Total                             | 21   | 0.59% | 219                                | 6.11% |
| Total Returned for Analysis       | 6  |       | 50                                 |       |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 4   | 0.11% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 0   | 0.00% |
| Intravascular           | 4   | 0.11% |
| Insulation Breach       | 24  | 0.67% |
| Lead-to-Can Contact     | 10  | 0.28% |
| Lead-to-Lead Contact    | 4   | 0.11% |
| Clavicular Crush        | 2   | 0.06% |
| Externalized Conductors | 1   | 0.03% |
| Other                   | 7   | 0.20% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 0   | 0.00% |
| Extrinsic Factors       | 25  | 0.70% |
| Total                   | 53  | 1.48% |



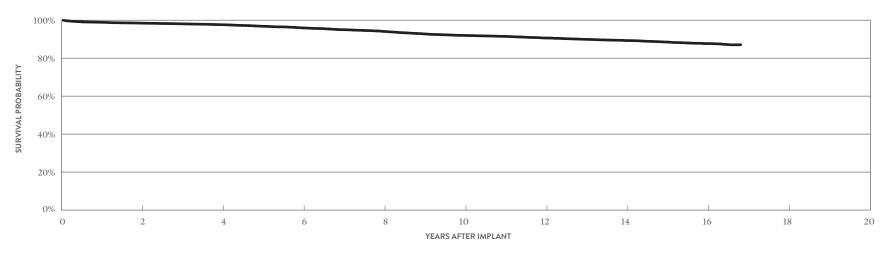
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 189 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.08% | 97.90% | 96.05% | 94.33% | 91.73% | 89.66% | 88.20% | 87.36%        |
| ±1 STANDARD ERROR    | 0.17%  | 0.28%  | 0.41%  | 0.51%  | 0.66%  | 0.76%  | 0.84%  | 0.93%         |
| SAMPLE SIZE          | 2,730  | 2,150  | 1,740  | 1,480  | 1,290  | 1,100  | 800    | 200           |

## Riata<sup>™</sup> ST Optim<sup>™</sup> MODELS 7020 & 7021

| US Regulatory Ap | oproval     | July 2006         |  |
|------------------|-------------|-------------------|--|
| Registered US Im | plants      | 15,622            |  |
| Estimated Active | US Implants | 3,453             |  |
| Insulation       |             | Optim"*           |  |
| Type and/or Fixa | tion        | Dual Coil, Active |  |
| Polarity         |             | Bipolar           |  |
| Steroid          |             | Yes               |  |
| Number of US Ad  | lvisories   | None              |  |
|                  |             |                   |  |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |       |     | MPLICATIONS<br>DAYS) |
|-----------------------------------|--|-------|-----|----------------------|
|                                   | QTY  | RATE  | QTY | RATE                 |
| Cardiac Perforation               | 33   | 0.21% | 17  | 0.11%                |
| Conductor Fracture                | 0  | 0.00% | 76  | 0.49%                |
| Lead Dislodgement                 | 27   | 0.17% | 67  | 0.43%                |
| Failure to Capture                | 17   | 0.11% | 192 | 1.23%                |
| Oversensing                       | 19   | 0.12% | 319 | 2.04%                |
| Failure to Sense                  | 8  | 0.05% | 23  | 0.15%                |
| Insulation Breach                 | 0  | 0.00% | 30  | 0.19%                |
| Abnormal Pacing Impedance         | 2  | 0.01% | 65  | 0.42%                |
| Abnormal Defibrillation Impedance | 4  | 0.03% | 126 | 0.81%                |
| Extracardiac Stimulation          | 3  | 0.02% | 2   | 0.01%                |
| Other                             | 0  | 0.00% | 30  | 0.19%                |
| Total                             | 113  | 0.72% | 947 | 6.06%                |
| Total Returned for Analysis       | 53   |       | 248 |                      |

| MALFUNCTIONS            | QTY | RATE   |
|-------------------------|-----|--------|
| Conductor Fracture      | 14  | 0.09%  |
| Clavicular Crush        | 1   | <0.01% |
| In the Pocket           | 8   | 0.05%  |
| Intravascular           | 5   | 0.03%  |
| Insulation Breach       | 78  | 0.50%  |
| Lead-to-Can Contact     | 37  | 0.24%  |
| Lead-to-Lead Contact    | 9   | 0.06%  |
| Clavicular Crush        | 7   | 0.04%  |
| Externalized Conductors | 0   | 0.00%  |
| Other                   | 25  | 0.16%  |
| Crimps, Welds & Bonds   | 0   | 0.00%  |
| Other                   | 0   | 0.00%  |
| Extrinsic Factors       | 202 | 1.29%  |
| Total                   | 294 | 1.88%  |



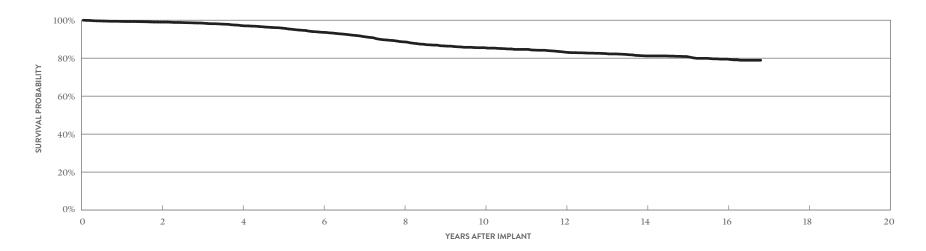
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 202 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.46% | 97.63% | 95.95% | 94.10% | 91.99% | 90.61% | 89.27% | 87.68% | 87.05%        |
| ± 1 STANDARD ERROR   | 0.10%  | 0.14%  | 0.19%  | 0.24%  | 0.30%  | 0.34%  | 0.37%  | 0.42%  | 0.49%         |
| SAMPLE SIZE          | 12,280 | 9,670  | 7,840  | 6,480  | 5,450  | 4,770  | 4,130  | 2,670  | 260           |

## Riata<sup>™</sup> ST MODELS 7040 & 7041

| US Regulatory Approval                   | March 2006         |
|--|--------------------|
| Registered US Implants                   | 4,057              |
| Estimated Active US Implants             | 802                |
| Insulation                               | Silicone           |
| Type and/or Fixation                     | Dual Coil, Passive |
| Polarity                                 | Bipolar            |
| Steroid                                  | Yes                |
| Number of US Advisories<br>(see pg. 224) | One                |
|  |                    |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |       |     | MPLICATIONS<br>DAYS) |
|-----------------------------------|--|-------|-----|----------------------|
|                                   | QTY  | RATE  | QTY | RATE                 |
| Cardiac Perforation               | 4  | 0.10% | 4   | 0.10%                |
| Conductor Fracture                | 0  | 0.00% | 39  | 0.96%                |
| Lead Dislodgement                 | 5  | 0.12% | 5   | 0.12%                |
| Failure to Capture                | 1  | 0.02% | 58  | 1.43%                |
| Oversensing                       | 4  | 0.10% | 126 | 3.11%                |
| Failure to Sense                  | 0  | 0.00% | 16  | 0.39%                |
| Insulation Breach                 | 0  | 0.00% | 66  | 1.63%                |
| Abnormal Pacing Impedance         | 2  | 0.05% | 22  | 0.54%                |
| Abnormal Defibrillation Impedance | 0  | 0.00% | 37  | 0.91%                |
| Extracardiac Stimulation          | 0  | 0.00% | 1   | 0.02%                |
| Other                             | 1  | 0.02% | 12  | 0.30%                |
| Total                             | 17   | 0.42% | 386 | 9.51%                |
| Total Returned for Analysis       | 3  |       | 88  |                      |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 4   | 0.10% |
| Clavicular Crush        | 0   | 0.00% |
| In the Pocket           | 1   | 0.02% |
| Intravascular           | 3   | 0.07% |
| Insulation Breach       | 72  | 1.77% |
| Lead-to-Can Contact     | 35  | 0.86% |
| Lead-to-Lead Contact    | 22  | 0.54% |
| Clavicular Crush        | 0   | 0.00% |
| Externalized Conductors | 2   | 0.05% |
| Other                   | 13  | 0.32% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 1   | 0.02% |
| Extrinsic Factors       | 33  | 0.81% |
| Total                   | 110 | 2.71% |



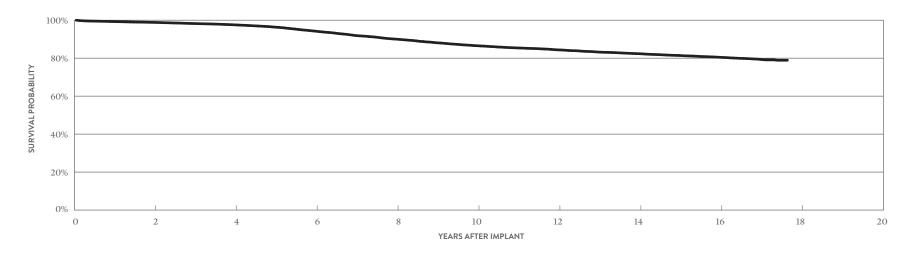
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 202 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.99% | 97.14% | 93.61% | 88.61% | 85.52% | 83.15% | 81.19% | 79.50% | 78.90%        |
| ±1 STANDARD ERROR    | 0.17%  | 0.30%  | 0.50%  | 0.70%  | 0.81%  | 0.89%  | 0.96%  | 1.05%  | 1.09%         |
| SAMPLE SIZE          | 3,170  | 2,470  | 1,910  | 1,510  | 1,240  | 1,080  | 940    | 580    | 210           |

## Riata™ ST MODELS 7000 & 7001

| US Regulatory Approval                   | June 2005         |
|--|-------------------|
| Registered US Implants                   | 35,059            |
| Estimated Active US Implants             | 6.582             |
| Insulation                               | Silicone          |
| Type and/or Fixation                     | Dual Coil, Active |
| Polarity                                 | Bipolar           |
| Steroid                                  | Yes               |
| Number of US Advisories<br>(see pg. 224) | One               |
|  |                   |

|                                   | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        | CHRONIC COMPLICATION<br>(>30 DAYS) |       |
|-----------------------------------|--|--------|------------------------------------|-------|
|                                   | QTY  | RATE   | QTY                                | RATE  |
| Cardiac Perforation               | 42   | 0.12%  | 35                                 | 0.10% |
| Conductor Fracture                | 0  | 0.00%  | 193                                | 0.55% |
| Lead Dislodgement                 | 38   | 0.11%  | 61                                 | 0.17% |
| Failure to Capture                | 43   | 0.12%  | 412                                | 1.18% |
| Oversensing                       | 40   | 0.11%  | 1078                               | 3.07% |
| Failure to Sense                  | 7  | 0.02%  | 66                                 | 0.19% |
| Insulation Breach                 | 2  | <0.01% | 809                                | 2.31% |
| Abnormal Pacing Impedance         | 8  | 0.02%  | 146                                | 0.42% |
| Abnormal Defibrillation Impedance | 4  | 0.01%  | 290                                | 0.83% |
| Extracardiac Stimulation          | 3  | <0.01% | 7                                  | 0.02% |
| Other                             | 11   | 0.03%  | 107                                | 0.31% |
| Total                             | 198  | 0.56%  | 3204                               | 9.14% |
| Total Returned for Analysis       | 97   |        | 848                                |       |

| MALFUNCTIONS            | QTY  | RATE    |
|-------------------------|------|---------|
| Conductor Fracture      | 25   | 0.07%   |
| Clavicular Crush        | 4    | 0.01%   |
| In the Pocket           | 7    | 0.02%   |
| Intravascular           | 14   | 0.04%   |
| Insulation Breach       | 698  | 1.99%   |
| Lead-to-Can Contact     | 364  | 1.04%   |
| Lead-to-Lead Contact    | 185  | 0.53%   |
| Clavicular Crush        | 12   | 0.03%   |
| Externalized Conductors | 45   | 0.13%   |
| Other                   | 92   | 0.26%   |
| Crimps, Welds & Bonds   | 2    | < 0.01% |
| Other                   | 1    | < 0.01% |
| Extrinsic Factors       | 342  | 0.98%   |
| Total                   | 1068 | 3.05%   |

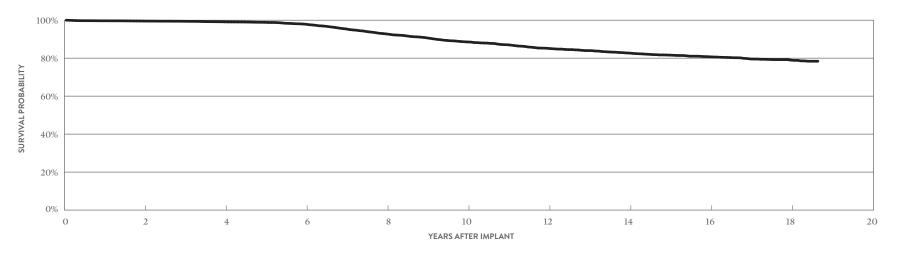


| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 212 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 98.85% | 97.56% | 94.22% | 90.01% | 86.56% | 84.37% | 82.36% | 80.46% | 78.90%        |
| ±1 STANDARD ERROR    | 0.06%  | 0.09%  | 0.16%  | 0.22%  | 0.27%  | 0.29%  | 0.32%  | 0.34%  | 0.41%         |
| SAMPLE SIZE          | 28,150 | 21,880 | 16,990 | 13,230 | 10,800 | 9,360  | 8,230  | 6,220  | 220           |

## Riata<sup>™</sup> i MODELS 1590 & 1591

| US Regulatory Approval       | April 2004         |  |
|------------------------------|--------------------|--|
| Registered US Implants       | 9,700              |  |
| Estimated Active US Implants | 1,578              |  |
| Insulation                   | Silicone           |  |
| Type and/or Fixation         | Dual Coil, Active  |  |
| Polarity                     | Integrated Bipolar |  |
| Steroid                      | Yes                |  |
| Number of US Advisories      | One                |  |
| (see pg. 224)                |                    |  |
|                              |                    |  |
|                              |                    |  |

| MALFUNCTIONS            | QTY | RATE  |
|-------------------------|-----|-------|
| Conductor Fracture      | 8   | 0.08% |
| Clavicular Crush        | 1   | 0.01% |
| In the Pocket           | 1   | 0.01% |
| Intravascular           | 6   | 0.06% |
| Insulation Breach       | 217 | 2.24% |
| Lead-to-Can Contact     | 92  | 0.95% |
| Lead-to-Lead Contact    | 59  | 0.61% |
| Clavicular Crush        | 2   | 0.02% |
| Externalized Conductors | 21  | 0.22% |
| Other                   | 43  | 0.44% |
| Crimps, Welds & Bonds   | 0   | 0.00% |
| Other                   | 1   | 0.01% |
| Extrinsic Factors       | 60  | 0.62% |
| Total                   | 286 | 2.95% |
|                         |     |       |



| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | 18     | AT 224 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.55% | 99.13% | 97.89% | 92.76% | 88.55% | 85.16% | 82.70% | 80.72% | 78.95% | 78.39%        |
| ±1 STANDARD ERROR    | 0.07%  | 0.11%  | 0.18%  | 0.39%  | 0.51%  | 0.60%  | 0.66%  | 0.70%  | 0.75%  | 0.81%         |
| SAMPLE SIZE          | 7,860  | 6,130  | 4,680  | 3,570  | 2,830  | 2,350  | 2,050  | 1,780  | 1,120  | 230           |

SUMMARY INFORMATION Defibrillation Leads

Survival Probability Summary

| MODELS      | FAMILY                  | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|-------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| LDA230Q     | Optisure" DF4           | 99.02% | 98.78% | 98.24% | 98.10% | 98.10% | 97.73% | 97.30% | 96.65% |        |         |
| LDA220Q     | Optisure" DF4           | 99.01% | 98.64% | 98.38% | 98.09% | 97.75% | 97.33% | 97.03% | 96.73% | 96.45% |         |
| LDA220      | Optisure"               | 98.84% | 98.62% | 98.39% | 97.32% | 97.32% | 97.32% | 97.32% |        |        |         |
| LDA210Q     | Optisure" DF4           | 98.99% | 98.74% | 98.54% | 98.26% | 97.98% | 97.69% | 97.37% | 96.92% | 96.65% |         |
| LDA210      | Optisure"               | 98.67% | 98.16% | 97.46% | 97.15% | 96.36% | 96.02% | 96.02% | 95.31% |        |         |
| 7170Q/7171Q | Durata" DF4             | 99.03% | 98.59% | 98.00% | 97.31% | 96.89% | 96.24% | 95.58% | 94.95% | 94.20% | 93.67%  |
| 7120Q/7121Q | Durata <sup>®</sup> DF4 | 99.16% | 98.88% | 98.59% | 98.21% | 97.77% | 97.29% | 96.75% | 96.28% | 95.75% | 95.20%  |
| 7122Q       | Durata <sup>®</sup> DF4 | 99.09% | 98.80% | 98.54% | 98.19% | 97.80% | 97.38% | 96.97% | 96.50% | 96.03% | 95.56%  |
| 7120/7121   | Durata                  | 99.34% | 99.01% | 98.68% | 98.27% | 97.73% | 97.19% | 96.46% | 95.82% | 95.26% | 94.67%  |
| 7122        | Durata                  | 99.09% | 98.62% | 98.23% | 97.72% | 97.05% | 96.45% | 95.82% | 95.15% | 94.71% | 94.23%  |
| 7070/7071   | Riata" ST Optim"        | 99.41% | 99.08% | 98.59% | 97.90% | 96.88% | 96.05% | 95.03% | 94.33% | 93.38% | 91.73%  |
| 7020/7021   | Riata" ST Optim"        | 98.91% | 98.46% | 98.09% | 97.63% | 96.82% | 95.95% | 95.00% | 94.10% | 92.80% | 91.99%  |
| 7040/7041   | Riata" ST               | 99.37% | 98.99% | 98.50% | 97.14% | 95.84% | 93.61% | 91.41% | 88.61% | 86.48% | 85.52%  |
| 7000/7001   | Riata" ST               | 99.28% | 98.85% | 98.24% | 97.56% | 96.34% | 94.22% | 91.90% | 90.01% | 88.10% | 86.56%  |
| 1590/1591   | Riata" i                | 99.69% | 99.55% | 99.42% | 99.13% | 98.87% | 97.89% | 95.42% | 92.76% | 90.70% | 88.55%  |

Acute Observation Summary

#### POST IMPLANT ≤30 DAYS

|             | US<br>REGULATORY | REGISTERED  | ESTIMATED<br>ACTIVE US |     | DIAC  |     | OUCTOR |     | AD<br>GEMENT |     | JRE TO<br>TURE | OVERS | ENSING |     | LURE   |     | LATION<br>EACH | PA  | ORMAL<br>CING<br>DANCE | DEFIBR | DRMAL<br>ILLATION<br>DANCE |     | CARDIAC | от  | HER   | тс   | DTAL  | TOTAL<br>RETURNED<br>FOR |
|-------------|------------------|-------------|------------------------|-----|-------|-----|--------|-----|--------------|-----|----------------|-------|--------|-----|--------|-----|----------------|-----|------------------------|--------|----------------------------|-----|---------|-----|-------|------|-------|--------------------------|
| MODELS      | APPROVAL         | US IMPLANTS | IMPLANTS               | QTY | RATE  | QTY | RATE   | QTY | RATE         | QTY | RATE           | QTY   | RATE   | QTY | RATE   | QTY | RATE           | QTY | RATE                   | QTY    | RATE                       | QTY | RATE    | QTY | RATE  | QTY  | RATE  | ANALYSIS                 |
| LDA230Q     | Feb-14           | 1,063       | 541                    | 1   | 0.09% | 0   | 0.00%  | 1   | 0.09%        | 0   | 0.00%          | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%          | 1   | 0.09%                  | 0      | 0.00%                      | 1   | 0.09%   | 0   | 0.00% | 4    | 0.38% | 1                        |
| LDA220Q     | Feb-14           | 13,811      | 7,824                  | 15  | 0.11% | 0   | 0.00%  | 59  | 0.43%        | 28  | 0.20%          | 5     | 0.04%  | 2   | 0.01%  | 0   | 0.00%          | 0   | 0.00%                  | 5      | 0.04%                      | 1   | <0.01%  | 6   | 0.04% | 121  | 0.88% | 46                       |
| LDA220      | Feb-14           | 637         | 314                    | 1   | 0.16% | 0   | 0.00%  | 0   | 0.00%        | 0   | 0.00%          | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%          | 0   | 0.00%                  | 0      | 0.00%                      | 0   | 0.00%   | 0   | 0.00% | 1    | 0.16% | 0                        |
| LDA210Q     | Feb-14           | 71,740      | 43,528                 | 135 | 0.19% | 2   | <0.01% | 235 | 0.33%        | 134 | 0.19%          | 49    | 0.07%  | 17  | 0.02%  | 5   | <0.01%         | 9   | 0.01%                  | 12     | 0.02%                      | 6   | <0.01%  | 20  | 0.03% | 624  | 0.87% | 218                      |
| LDA210      | Feb-14           | 1,907       | 1,075                  | 3   | 0.16% | 0   | 0.00%  | 7   | 0.37%        | 3   | 0.16%          | 3     | 0.16%  | 0   | 0.00%  | 0   | 0.00%          | 0   | 0.00%                  | 0      | 0.00%                      | 0   | 0.00%   | 1   | 0.05% | 17   | 0.89% | 6                        |
| 7170Q/7171Q | Jul-09           | 7,317       | 2,862                  | 6   | 0.08% | 1   | 0.01%  | 22  | 0.30%        | 14  | 0.19%          | 3     | 0.04%  | 0   | 0.00%  | 0   | 0.00%          | 1   | 0.01%                  | 0      | 0.00%                      | 1   | 0.01%   | 1   | 0.01% | 49   | 0.67% | 22                       |
| 7120Q/7121Q | Jan-09           | 147,605     | 56,992                 | 109 | 0.07% | 2   | <0.01% | 310 | 0.21%        | 147 | 0.10%          | 55    | 0.04%  | 17  | 0.01%  | 0   | 0.00%          | 7   | <0.01%                 | 11     | <0.01%                     | 7   | <0.01%  | 45  | 0.03% | 710  | 0.48% | 345                      |
| 7122Q       | Jan-09           | 174,733     | 87,746                 | 233 | 0.13% | 4   | <0.01% | 452 | 0.26%        | 254 | 0.15%          | 79    | 0.05%  | 17  | <0.01% | 2   | < 0.01%        | 18  | 0.01%                  | 14     | <0.01%                     | 5   | <0.01%  | 57  | 0.03% | 1135 | 0.65% | 457                      |
| 7120/7121   | Sep-07           | 63,479      | 17,832                 | 41  | 0.06% | 2   | <0.01% | 70  | 0.11%        | 26  | 0.04%          | 51    | 0.08%  | 5   | <0.01% | 0   | 0.00%          | 2   | <0.01%                 | 21     | 0.03%                      | 0   | 0.00%   | 21  | 0.03% | 239  | 0.38% | 93                       |
| 7122        | Sep-07           | 16,845      | 5,599                  | 12  | 0.07% | 1   | <0.01% | 24  | 0.14%        | 19  | 0.11%          | 13    | 0.08%  | 0   | 0.00%  | 2   | 0.01%          | 3   | 0.02%                  | 3      | 0.02%                      | 2   | 0.01%   | 4   | 0.02% | 83   | 0.49% | 38                       |
| 7070/7071   | Jul-06           | 3,583       | 875                    | 3   | 0.08% | 1   | 0.03%  | 3   | 0.08%        | 6   | 0.17%          | 4     | 0.11%  | 4   | 0.11%  | 0   | 0.00%          | 0   | 0.00%                  | 0      | 0.00%                      | 0   | 0.00%   | 0   | 0.00% | 21   | 0.59% | 6                        |
| 7020/7021   | Jul-06           | 15,622      | 3,453                  | 33  | 0.21% | 0   | 0.00%  | 27  | 0.17%        | 17  | 0.11%          | 19    | 0.12%  | 8   | 0.05%  | 0   | 0.00%          | 2   | 0.01%                  | 4      | 0.03%                      | 3   | 0.02%   | 0   | 0.00% | 113  | 0.72% | 53                       |
| 7040/7041   | Mar-06           | 4,057       | 802                    | 4   | 0.10% | 0   | 0.00%  | 5   | 0.12%        | 1   | 0.02%          | 4     | 0.10%  | 0   | 0.00%  | 0   | 0.00%          | 2   | 0.05%                  | 0      | 0.00%                      | 0   | 0.00%   | 1   | 0.02% | 17   | 0.42% | 3                        |
| 7000/7001   | Jun-05           | 35,059      | 6,582                  | 42  | 0.12% | 0   | 0.00%  | 38  | 0.11%        | 43  | 0.12%          | 40    | 0.11%  | 7   | 0.02%  | 2   | <0.01%         | 8   | 0.02%                  | 4      | 0.01%                      | 3   | <0.01%  | 11  | 0.03% | 198  | 0.56% | 97                       |

Chronic Complication Summary

#### >30 DAYS

|             | US<br>REGULATORY | REGISTERED  | ESTIMATED<br>ACTIVE US |     | DIAC<br>RATION |     |       | LE<br>DISLOD | AD    |      | JRE TO<br>TURE | OVERS | ENSING |     | LURE  |     | ATION<br>ACH | PA  | DRMAL<br>CING<br>DANCE | ABNC<br>DEFIBRI<br>IMPEL |       |     | CARDIAC | от  | HER   | то   | TAL   | TOTAL<br>RETURNED<br>FOR |
|-------------|------------------|-------------|------------------------|-----|----------------|-----|-------|--------------|-------|------|----------------|-------|--------|-----|-------|-----|--------------|-----|------------------------|--------------------------|-------|-----|---------|-----|-------|------|-------|--------------------------|
| MODELS      | APPROVAL         | US IMPLANTS | IMPLANTS               | QTY | RATE           | QTY | RATE  | QTY          | RATE  | QTY  | RATE           | QTY   | RATE   | QTY | RATE  | QTY | RATE         | QTY | RATE                   | QTY                      | RATE  | QTY | RATE    | QTY | RATE  | QTY  | RATE  | ANALYSIS                 |
| LDA230Q     | Feb-14           | 1,063       | 541                    | 0   | 0.00%          | 0   | 0.00% | 3            | 0.28% | 7    | 0.66%          | 8     | 0.75%  | 1   | 0.09% | 0   | 0.00%        | 1   | 0.09%                  | 0                        | 0.00% | 0   | 0.00%   | 0   | 0.00% | 20   | 1.88% | 8                        |
| LDA220Q     | Feb-14           | 13,811      | 7,824                  | 5   | 0.04%          | 8   | 0.06% | 88           | 0.64% | 96   | 0.70%          | 83    | 0.60%  | 10  | 0.07% | 2   | 0.01%        | 17  | 0.12%                  | 23                       | 0.17% | 0   | 0.00%   | 8   | 0.06% | 340  | 2.46% | 89                       |
| LDA220      | Feb-14           | 637         | 314                    | 0   | 0.00%          | 0   | 0.00% | 5            | 0.78% | 3    | 0.47%          | 6     | 0.94%  | 0   | 0.00% | 0   | 0.00%        | 3   | 0.47%                  | 1                        | 0.16% | 0   | 0.00%   | 0   | 0.00% | 18   | 2.83% | 4                        |
| LDA210Q     | Feb-14           | 71,740      | 43,528                 | 37  | 0.05%          | 33  | 0.05% | 423          | 0.59% | 343  | 0.48%          | 291   | 0.41%  | 32  | 0.04% | 2   | <0.01%       | 66  | 0.09%                  | 60                       | 0.08% | 6   | <0.01%  | 47  | 0.07% | 1340 | 1.87% | 442                      |
| LDA210      | Feb-14           | 1,907       | 1,075                  | 0   | 0.00%          | 5   | 0.26% | 10           | 0.52% | 14   | 0.73%          | 27    | 1.42%  | 0   | 0.00% | 0   | 0.00%        | 6   | 0.31%                  | 2                        | 0.10% | 2   | 0.10%   | 2   | 0.10% | 68   | 3.57% | 15                       |
| 7170Q/7171Q | Jul-09           | 7,317       | 2,862                  | 8   | 0.11%          | 34  | 0.46% | 38           | 0.52% | 92   | 1.26%          | 83    | 1.13%  | 2   | 0.03% | 6   | 0.08%        | 31  | 0.42%                  | 24                       | 0.33% | 0   | 0.00%   | 4   | 0.05% | 322  | 4.40% | 78                       |
| 7120Q/7121Q | Jan-09           | 147,605     | 56,992                 | 52  | 0.04%          | 302 | 0.20% | 749          | 0.51% | 1258 | 0.85%          | 1341  | 0.91%  | 117 | 0.08% | 85  | 0.06%        | 290 | 0.20%                  | 622                      | 0.42% | 10  | <0.01%  | 117 | 0.08% | 4943 | 3.35% | 1335                     |
| 7122Q       | Jan-09           | 174,733     | 87,746                 | 78  | 0.04%          | 146 | 0.08% | 944          | 0.54% | 1041 | 0.60%          | 959   | 0.55%  | 90  | 0.05% | 54  | 0.03%        | 225 | 0.13%                  | 209                      | 0.12% | 15  | <0.01%  | 134 | 0.08% | 3895 | 2.23% | 1264                     |
| 7120/7121   | Sep-07           | 63,479      | 17,832                 | 19  | 0.03%          | 192 | 0.30% | 192          | 0.30% | 465  | 0.73%          | 999   | 1.57%  | 73  | 0.11% | 79  | 0.12%        | 249 | 0.39%                  | 406                      | 0.64% | 3   | <0.01%  | 65  | 0.10% | 2742 | 4.32% | 657                      |
| 7122        | Sep-07           | 16,845      | 5,599                  | 5   | 0.03%          | 52  | 0.31% | 80           | 0.47% | 128  | 0.76%          | 241   | 1.43%  | 13  | 0.08% | 27  | 0.16%        | 61  | 0.36%                  | 53                       | 0.31% | 2   | 0.01%   | 16  | 0.09% | 678  | 4.02% | 214                      |
| 7070/7071   | Jul-06           | 3,583       | 875                    | 2   | 0.06%          | 29  | 0.81% | 13           | 0.36% | 44   | 1.23%          | 75    | 2.09%  | 3   | 0.08% | 9   | 0.25%        | 18  | 0.50%                  | 22                       | 0.61% | 1   | 0.03%   | 3   | 0.08% | 219  | 6.11% | 50                       |
| 7020/7021   | Jul-06           | 15,622      | 3,453                  | 17  | 0.11%          | 76  | 0.49% | 67           | 0.43% | 192  | 1.23%          | 319   | 2.04%  | 23  | 0.15% | 30  | 0.19%        | 65  | 0.42%                  | 126                      | 0.81% | 2   | 0.01%   | 30  | 0.19% | 947  | 6.06% | 248                      |
| 7040/7041   | Mar-06           | 4,057       | 802                    | 4   | 0.10%          | 39  | 0.96% | 5            | 0.12% | 58   | 1.43%          | 126   | 3.11%  | 16  | 0.39% | 66  | 1.63%        | 22  | 0.54%                  | 37                       | 0.91% | 1   | 0.02%   | 12  | 0.30% | 386  | 9.51% | 88                       |
| 7000/7001   | Jun-05           | 35,059      | 6,582                  | 35  | 0.10%          | 193 | 0.55% | 61           | 0.17% | 412  | 1.18%          | 1078  | 3.07%  | 66  | 0.19% | 809 | 2.31%        | 146 | 0.42%                  | 290                      | 0.83% | 7   | 0.02%   | 107 | 0.31% | 3204 | 9.14% | 848                      |

U.S. Malfunction Summary

|             | REGISTERED  | PERCENT<br>RETURNED |     | CONDUCTOR<br>FRACTURE |     | ATION<br>ACH |     |        | от  | HER    |      | INSIC<br>TORS | то   | TAL   |
|-------------|-------------|---------------------|-----|-----------------------|-----|--------------|-----|--------|-----|--------|------|---------------|------|-------|
| MODELS      | US IMPLANTS | FOR ANALYSIS        | QTY | RATE                  | QTY | RATE         | QTY | RATE   | QTY | RATE   | QTY  | RATE          | QTY  | RATE  |
| LDA230Q     | 1,063       | 4.50%               | 1   | 0.09%                 | 3   | 0.28%        | 0   | 0.00%  | 0   | 0.00%  | 8    | 0.75%         | 12   | 1.13% |
| LDA220Q     | 13,811      | 5.00%               | 1   | <0.01%                | 7   | 0.05%        | 0   | 0.00%  | 0   | 0.00%  | 83   | 0.60%         | 91   | 0.66% |
| LDA220      | 637         | 5.20%               | 0   | 0.00%                 | 0   | 0.00%        | 0   | 0.00%  | 0   | 0.00%  | 6    | 0.94%         | 6    | 0.94% |
| LDA210Q     | 71,740      | 4.10%               | 8   | 0.01%                 | 25  | 0.03%        | 0   | 0.00%  | 5   | <0.01% | 425  | 0.59%         | 463  | 0.65% |
| LDA210      | 1,907       | 5.50%               | 0   | 0.00%                 | 1   | 0.05%        | 0   | 0.00%  | 0   | 0.00%  | 16   | 0.84%         | 17   | 0.89% |
| 7170Q/7171Q | 7,317       | 6.20%               | 6   | 0.08%                 | 17  | 0.23%        | 0   | 0.00%  | 0   | 0.00%  | 60   | 0.82%         | 83   | 1.13% |
| 7120Q/7121Q | 147,605     | 6.00%               | 41  | 0.03%                 | 422 | 0.29%        | 2   | <0.01% | 39  | 0.03%  | 1045 | 0.71%         | 1549 | 1.05% |
| 7122Q       | 174,733     | 5.60%               | 26  | 0.01%                 | 289 | 0.17%        | 1   | <0.01% | 22  | 0.01%  | 1075 | 0.62%         | 1413 | 0.81% |
| 7120/7121   | 63,479      | 7.20%               | 35  | 0.06%                 | 246 | 0.39%        | 1   | <0.01% | 10  | 0.02%  | 493  | 0.78%         | 785  | 1.24% |
| 7122        | 16,845      | 11.10%              | 18  | 0.11%                 | 87  | 0.52%        | 0   | 0.00%  | 4   | 0.02%  | 163  | 0.97%         | 272  | 1.61% |
| 7070/7071   | 3,583       | 9.30%               | 4   | 0.11%                 | 24  | 0.67%        | 0   | 0.00%  | 0   | 0.00%  | 25   | 0.70%         | 53   | 1.48% |
| 7020/7021   | 15,622      | 8.40%               | 14  | 0.09%                 | 78  | 0.50%        | 0   | 0.00%  | 0   | 0.00%  | 202  | 1.29%         | 294  | 1.88% |
| 7040/7041   | 4,057       | 9.70%               | 4   | 0.10%                 | 72  | 1.77%        | 0   | 0.00%  | 1   | 0.02%  | 33   | 0.81%         | 110  | 2.71% |
| 7000/7001   | 35,059      | 8.70%               | 25  | 0.07%                 | 698 | 1.99%        | 2   | <0.01% | 1   | <0.01% | 342  | 0.98%         | 1068 | 3.05% |
| 1590/1591   | 9,700       | 8.60%               | 8   | 0.08%                 | 217 | 2.24%        | 0   | 0.00%  | 1   | 0.01%  | 60   | 0.62%         | 286  | 2.95% |

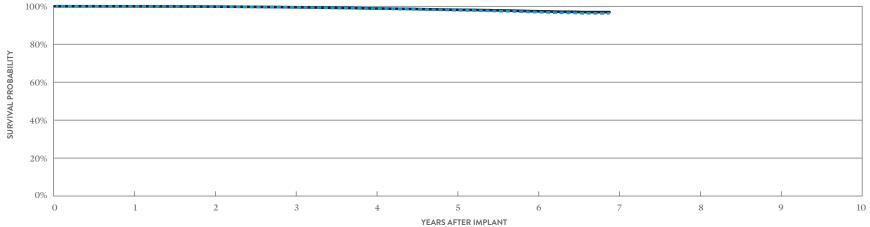
Definitions of malfunction categories can be found on pages 8-9.

Worldwide Malfunction Summary

|             | WORLDWIDE | PERCENT<br>RETURNED |     |       |     | ATION<br>ACH |     | S, WELDS<br>ONDS | от  | HER   | EXTRINSIC<br>FACTORS |       | TOTAL |       |
|-------------|-----------|---------------------|-----|-------|-----|--------------|-----|------------------|-----|-------|----------------------|-------|-------|-------|
| MODELS      | SALES     | FOR ANALYSIS        | QTY | RATE  | QTY | RATE         | QTY | RATE             | QTY | RATE  | QTY                  | RATE  | QTY   | RATE  |
| LDA230Q     | 1,100     | 4.36%               | 1   | 0.09% | 3   | 0.27%        | 0   | 0.00%            | 0   | 0.00% | 8                    | 0.73% | 12    | 1.09% |
| LDA220Q     | 19,331    | 3.65%               | 1   | 0.01% | 7   | 0.04%        | 0   | 0.00%            | 1   | 0.01% | 109                  | 0.56% | 118   | 0.61% |
| LDA210Q     | 128,970   | 2.36%               | 17  | 0.01% | 47  | 0.04%        | 0   | 0.00%            | 11  | 0.01% | 652                  | 0.51% | 727   | 0.56% |
| LDA210      | 2,077     | 5.01%               | 0   | 0.00% | 1   | 0.05%        | 0   | 0.00%            | 0   | 0.00% | 16                   | 0.77% | 17    | 0.82% |
| 7170Q/7171Q | 19,692    | 3.05%               | 12  | 0.06% | 27  | 0.14%        | 2   | 0.01%            | 0   | 0.00% | 91                   | 0.46% | 132   | 0.67% |
| 7120Q/7121Q | 251,410   | 3.98%               | 72  | 0.03% | 536 | 0.21%        | 3   | <0.01%           | 96  | 0.04% | 1508                 | 0.60% | 2215  | 0.88% |
| 7122Q       | 528,952   | 2.11%               | 73  | 0.01% | 520 | 0.10%        | 3   | <0.01%           | 150 | 0.03% | 2337                 | 0.44% | 3083  | 0.58% |
| 7120/7121   | 148,858   | 3.67%               | 119 | 0.08% | 344 | 0.23%        | 1   | <0.01%           | 25  | 0.02% | 877                  | 0.59% | 1366  | 0.92% |
| 7122        | 91,660    | 2.89%               | 121 | 0.13% | 206 | 0.22%        | 1   | <0.01%           | 24  | 0.03% | 609                  | 0.66% | 961   | 1.05% |

Definitions of malfunction categories can be found on pages 8-9.

| Assurity MRI™<br>MODEL PM2272                    |              | W/ COM                           | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |      |        |
|--|--------------|----------------------------------|-----------------------------|--|------|--------|
|  |              |                                  | QTY                         | RATE                                       | QTY  | RATE   |
| US Regulatory Approval                           | January 2017 | Electrical Component             | 2                           | <0.01%                                     | 22   | <0.01% |
| Registered US Implants                           | 416,445      | Electrical Interconnect          | 0                           | 0.00%                                      | 0    | 0.00%  |
| Estimated Active US Implants                     | 290,734      | Battery                          | 0                           | 0.00%                                      | 0    | 0.00%  |
| Estimated Longevity                              | 9.4 Years    | Software/Firmware                | 2                           | <0.01%                                     | 66   | 0.02%  |
| Normal Battery Depletion                         | 165          | Mechanical                       | 62                          | 0.01%                                      | 1039 | 0.25%  |
| Number of US Advisories (see pgs. 215, 216, 218) | Three        | Possible Early Battery Depletion | 0                           | 0.00%                                      | 1    | <0.01% |
|  |              | Other                            | 3                           | <0.01%                                     | 10   | <0.01% |
|  |              | Total                            | 69                          | 0.02%                                      | 1138 | 0.27%  |



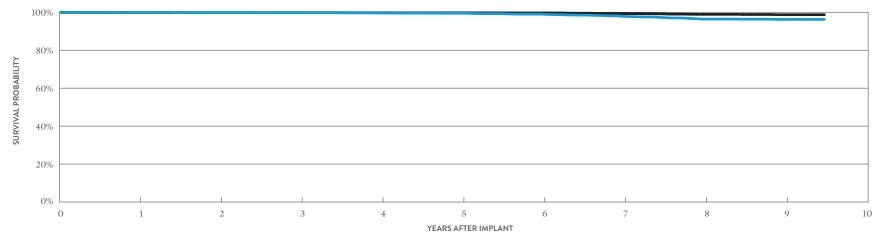
| YEARS | AFTER | IMPL | AN. |
|-------|-------|------|-----|
|-------|-------|------|-----|

### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1       | 2       | 3       | 4       | 5      | 6      | AT 83 MONTHS |
|----------------------|---------|---------|---------|---------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.96%  | 99.82%  | 99.44%  | 98.76%  | 97.94% | 96.95% | 96.28%       |
| ±1 STANDARD ERROR    | 0.00%   | 0.01%   | 0.02%   | 0.03%   | 0.04%  | 0.06%  | 0.10%        |
| SAMPLE SIZE          | 364,290 | 273,780 | 202,360 | 141,850 | 89,300 | 44,480 | 840          |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | AT 83 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.96% | 99.83% | 99.49% | 98.86% | 98.17% | 97.40% | 96.92%       |
| ± 1 STANDARD ERROR   | 0.00%  | 0.01%  | 0.01%  | 0.03%  | 0.04%  | 0.06%  | 0.08%        |

| Endurity™ DR<br>MODEL PM2160               |            | W/ COMP                          | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |     |       |
|--|------------|----------------------------------|-----------------------------|--|-----|-------|
|  |            |                                  | QTY                         | RATE                                       | QTY | RATE  |
| US Regulatory Approval                     | March 2014 | Electrical Component             | 0                           | 0.00%                                      | 0   | 0.00% |
| Registered US Implants                     | 9,408      | Electrical Interconnect          | 0                           | 0.00%                                      | 0   | 0.00% |
| Estimated Active US Implants               | 4,333      | Battery                          | 0                           | 0.00%                                      | 0   | 0.00% |
| Estimated Longevity                        | 9.7 Years  | Software/Firmware                | 0                           | 0.00%                                      | 0   | 0.00% |
| Normal Battery Depletion                   | 50         | Mechanical                       | 0                           | 0.00%                                      | 28  | 0.30% |
| Number of US Advisories (see pg. 215, 216) | Two        | Possible Early Battery Depletion | 0                           | 0.00%                                      | 0   | 0.00% |
|  |            | Other                            | 0                           | 0.00%                                      | 2   | 0.02% |
|  |            | Total                            | 0                           | 0.00%                                      | 30  | 0.32% |

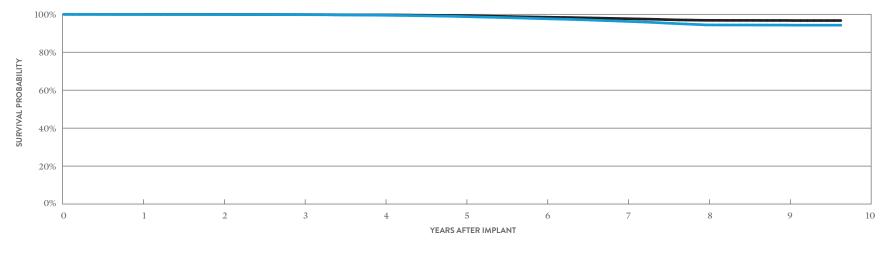


| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 114 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.82% | 99.77% | 99.75% | 99.63% | 99.50% | 99.01% | 97.90% | 96.42% | 96.24% | 96.24%        |
| ±1 STANDARD ERROR    | 0.04%  | 0.05%  | 0.05%  | 0.07%  | 0.08%  | 0.12%  | 0.18%  | 0.25%  | 0.28%  | 0.28%         |
| SAMPLE SIZE          | 8,940  | 8,110  | 7,450  | 6,850  | 6,290  | 5,710  | 5,080  | 4,180  | 2,580  | 410           |

| EXCLUDING NO | RMAL BATTERY | DEPLETION |
|--------------|--------------|-----------|
|              |              |           |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 114 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.85% | 99.82% | 99.82% | 99.76% | 99.73% | 99.66% | 99.31% | 98.92% | 98.73% | 98.73%        |
| ±1 STANDARD ERROR    | 0.04%  | 0.04%  | 0.04%  | 0.05%  | 0.06%  | 0.07%  | 0.10%  | 0.14%  | 0.17%  | 0.17%         |

| Assurity™ DR RF<br>MODEL PM2240                  |            | W/ COM                           | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |      |        |
|--|------------|----------------------------------|-----------------------------|--|------|--------|
|  |            |                                  | QTY                         | RATE                                       | QTY  | RATE   |
| US Regulatory Approval                           | March 2014 | Electrical Component             | 5                           | <0.01%                                     | 24   | 0.01%  |
| Registered US Implants                           | 185,826    | Electrical Interconnect          | 0                           | 0.00%                                      | 0    | 0.00%  |
| Estimated Active US Implants                     | 90,947     | Battery                          | 0                           | 0.00%                                      | 0    | 0.00%  |
| Estimated Longevity                              | 9.4 Years  | Software/Firmware                | 1                           | <0.01%                                     | 36   | 0.02%  |
| Normal Battery Depletion                         | 879        | Mechanical                       | 102                         | 0.05%                                      | 1073 | 0.58%  |
| Number of US Advisories (see pgs. 215, 216, 218) | Three      | Possible Early Battery Depletion | 3                           | <0.01%                                     | 3    | <0.01% |
|  |            | Other                            | 0                           | 0.00%                                      | 10   | <0.01% |
|  |            | Total                            | 111                         | 0.06%                                      | 1146 | 0.62%  |

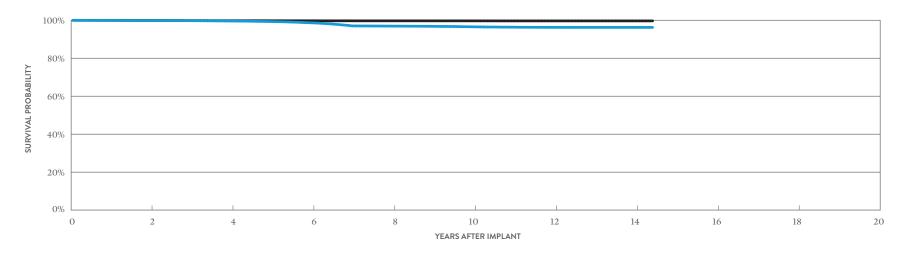


| YEAR                 | 1       | 2       | 3       | 4       | 5       | 6       | 7      | 8      | 9      | AT 116 MONTHS |
|----------------------|---------|---------|---------|---------|---------|---------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.95%  | 99.90%  | 99.78%  | 99.49%  | 98.78%  | 97.66%  | 96.28% | 94.40% | 94.31% | 94.26%        |
| ±1 STANDARD ERROR    | 0.01%   | 0.01%   | 0.01%   | 0.02%   | 0.03%   | 0.04%   | 0.06%  | 0.08%  | 0.08%  | 0.08%         |
| SAMPLE SIZE          | 176,540 | 160,400 | 147,390 | 135,230 | 123,000 | 109,250 | 90,360 | 60,660 | 26,520 | 450           |

| EXCLUDING NORMAL BATTER | RY DEPLETION |
|-------------------------|--------------|
|                         |              |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 116 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.96% | 99.92% | 99.84% | 99.67% | 99.23% | 98.49% | 97.70% | 96.82% | 96.75% | 96.70%        |
| ±1 STANDARD ERROR    | 0.00%  | 0.01%  | 0.01%  | 0.01%  | 0.02%  | 0.03%  | 0.04%  | 0.06%  | 0.06%  | 0.06%         |

| Accent™ DR RF<br>MODEL PM2210                    | W/ COM    | NCTIONS<br>PROMISED<br>RAPY      | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |         |
|--|-----------|----------------------------------|--|---------|-----|---------|
|  |           |                                  | QTY  | RATE    | QTY | RATE    |
| US Regulatory Approval                           | July 2009 | Electrical Component             | 17   | <0.01%  | 54  | 0.02%   |
| Registered US Implants                           | 244,866   | Electrical Interconnect          | 8  | <0.01%  | 33  | 0.01%   |
| Estimated Active US Implants                     | 61,814    | Battery                          | 0  | 0.00%   | 0   | 0.00%   |
| Estimated Longevity                              | 8 Years   | Software/Firmware                | 0  | 0.00%   | 5   | < 0.01% |
| Normal Battery Depletion                         | 1,729     | Mechanical                       | 1  | <0.01%  | 22  | <0.01%  |
| Number of US Advisories (see pgs. 215, 216, 218) | Three     | Possible Early Battery Depletion | 7  | <0.01%  | 24  | <0.01%  |
|  |           | Other                            | 5  | < 0.01% | 48  | 0.02%   |
|  |           | Total                            | 38   | 0.02%   | 186 | 0.08%   |

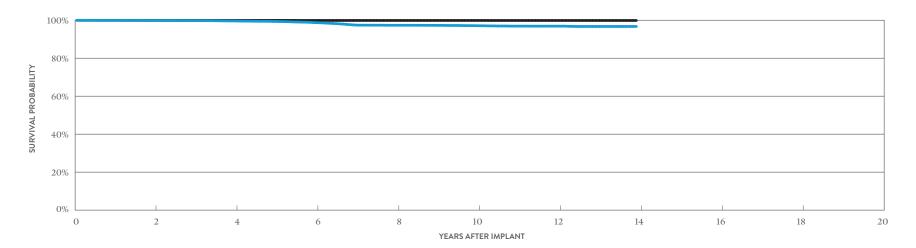


| INCLUDING NORMAL BATTERY DEPLETION |  |
|------------------------------------|--|
|------------------------------------|--|

| YEAR                 | 2       | 4       | 6       | 8       | 10     | 12     | 14     | AT 173 MONTHS |
|----------------------|---------|---------|---------|---------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.86%  | 99.60%  | 98.63%  | 96.92%  | 96.55% | 96.26% | 96.24% | 96.24%        |
| ±1 STANDARD ERROR    | 0.01%   | 0.01%   | 0.03%   | 0.05%   | 0.05%  | 0.06%  | 0.06%  | 0.06%         |
| SAMPLE SIZE          | 205,060 | 168,580 | 140,720 | 116,830 | 81,450 | 33,290 | 6,750  | 290           |

| EXCLUDING NORMAL BATTERY DEPLETION |        |        |        |        |        |        |        |               |  |  |  |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------------|--|--|--|
| YEAR                               | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 173 MONTHS |  |  |  |
| SURVIVAL PROBABILITY               | 99.90% | 99.79% | 99.74% | 99.71% | 99.69% | 99.67% | 99.67% | 99.67%        |  |  |  |
| ±1 STANDARD ERROR                  | 0.01%  | 0.01%  | 0.01%  | 0.01%  | 0.01%  | 0.01%  | 0.01%  | 0.01%         |  |  |  |

| Accent™ DR<br>MODEL PM2110            | W/ COM    | NCTIONS<br>PROMISED<br>ERAPY     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |        |
|---------------------------------------|-----------|----------------------------------|--|---------|-----|--------|
|                                       |           |                                  | QTY  | RATE    | QTY | RATE   |
| US Regulatory Approval                | July 2009 | Electrical Component             | 2  | <0.01%  | 3   | <0.01% |
| Registered US Implants                | 49,131    | Electrical Interconnect          | 2  | < 0.01% | 0   | 0.00%  |
| Estimated Active US Implants          | 13,970    | Battery                          | 0  | 0.00%   | 0   | 0.00%  |
| Estimated Longevity                   | 9.2 Years | Software/Firmware                | 0  | 0.00%   | 4   | <0.01% |
| Normal Battery Depletion              | 323       | Mechanical                       | 0  | 0.00%   | 5   | 0.01%  |
| Number of US Advisories (see pg. 220) | One       | Possible Early Battery Depletion | 0  | 0.00%   | 2   | <0.01% |
|                                       |           | Other                            | 0  | 0.00%   | 0   | 0.00%  |
|                                       |           | Total                            | 4  | <0.01%  | 14  | 0.03%  |

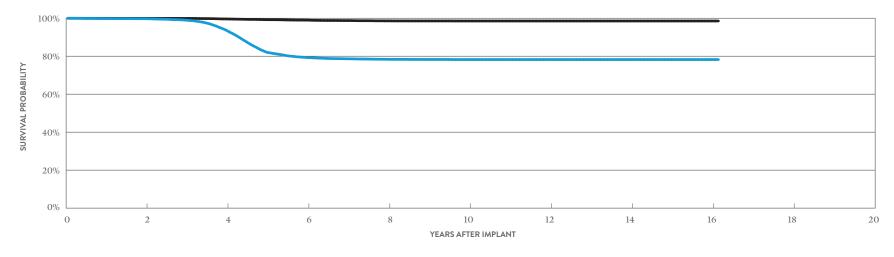


#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 167 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.89% | 99.62% | 98.74% | 97.37% | 97.12% | 96.90% | 96.74%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.06%  | 0.09%  | 0.10%  | 0.11%  | 0.13%         |
| SAMPLE SIZE          | 41,120 | 33,670 | 28,300 | 23,930 | 17,610 | 7,370  | 230           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 167 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.95% | 99.93% | 99.90% | 99.90% | 99.90% | 99.89% | 99.89%        |
| ± 1 STANDARD ERROR   | 0.01%  | 0.01%  | 0.02%  | 0.02%  | 0.02%  | 0.02%  | 0.02%         |

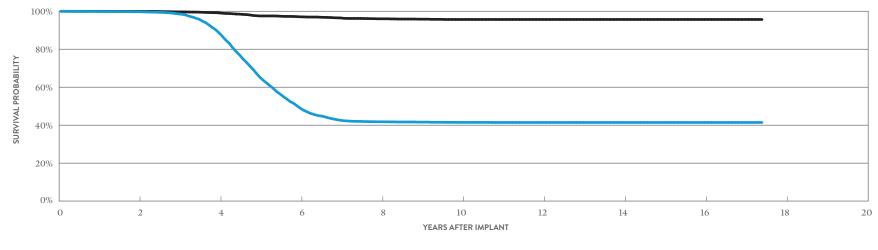
| Zephyr™ DR<br>MODEL 5820     | W/ COM     | NCTIONS<br>PROMISED<br>ERAPY     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |     |         |
|------------------------------|------------|----------------------------------|--|---------|-----|---------|
|                              |            |                                  | QTY  | RATE    | QTY | RATE    |
| US Regulatory Approval       | March 2007 | Electrical Component             | 2  | < 0.01% | 36  | 0.07%   |
| Registered US Implants       | 54,733     | Electrical Interconnect          | 0  | 0.00%   | 0   | 0.00%   |
| Estimated Active US Implants | 9,932      | Battery                          | 0  | 0.00%   | 0   | 0.00%   |
| Estimated Longevity          | 6.5 Years  | Software/Firmware                | 0  | 0.00%   | 9   | 0.02%   |
| Normal Battery Depletion     | 2,471      | Mechanical                       | 0  | 0.00%   | 2   | < 0.01% |
| Number of US Advisories      | None       | Possible Early Battery Depletion | 0  | 0.00%   | 1   | < 0.01% |
|                              |            | Other                            | 0  | 0.00%   | 93  | 0.17%   |
|                              |            | Total                            | 2  | <0.01%  | 141 | 0.26%   |



| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 194 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.75% | 93.70% | 79.31% | 78.37% | 78.26% | 78.26% | 78.26% | 78.26% | 78.26%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.13%  | 0.23%  | 0.24%  | 0.24%  | 0.24%  | 0.24%  | 0.24%  | 0.24%         |
| SAMPLE SIZE          | 42,650 | 31,830 | 21,120 | 13,960 | 10,410 | 6,910  | 3,490  | 790    | 230           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 194 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.96% | 99.64% | 99.00% | 98.63% | 98.57% | 98.57% | 98.57% | 98.57% | 98.57%        |
| ±1 STANDARD ERROR    | 0.01%  | 0.03%  | 0.06%  | 0.08%  | 0.08%  | 0.08%  | 0.08%  | 0.08%  | 0.08%         |

| Victory™ DR<br>MODEL 5810    | W/ COM        | NCTIONS<br>PROMISED<br>ERAPY     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |        |     |        |
|------------------------------|---------------|----------------------------------|--|--------|-----|--------|
|                              |               |                                  | QTY  | RATE   | QTY | RATE   |
| US Regulatory Approval       | December 2005 | Electrical Component             | 1  | <0.01% | 89  | 0.34%  |
| Registered US Implants       | 26,314        | Electrical Interconnect          | 0  | 0.00%  | 0   | 0.00%  |
| Estimated Active US Implants | 1,969         | Battery                          | 0  | 0.00%  | 0   | 0.00%  |
| Estimated Longevity          | 6.5 Years     | Software/Firmware                | 0  | 0.00%  | 8   | 0.03%  |
| Normal Battery Depletion     | 2,779         | Mechanical                       | 0  | 0.00%  | 2   | <0.01% |
| Number of US Advisories      | None          | Possible Early Battery Depletion | 0  | 0.00%  | 17  | 0.06%  |
|                              |               | Other                            | 0  | 0.00%  | 37  | 0.14%  |
|                              |               | Total                            | 1  | <0.01% | 153 | 0.58%  |

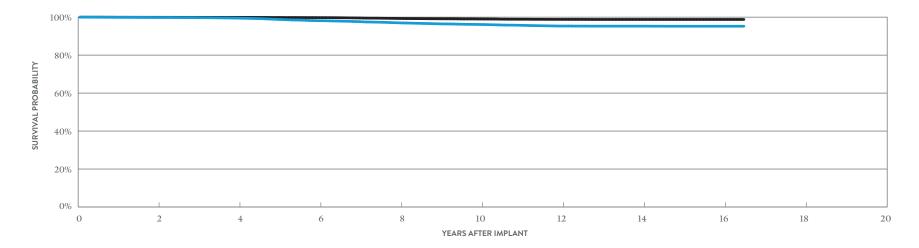


INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 209 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.74% | 88.52% | 48.99% | 41.81% | 41.47% | 41.43% | 41.43% | 41.43% | 41.43%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.25%  | 0.45%  | 0.46%  | 0.46%  | 0.46%  | 0.46%  | 0.46%  | 0.46%         |
| SAMPLE SIZE          | 20,250 | 13,770 | 6,820  | 3,310  | 2,550  | 2,340  | 2,090  | 1,380  | 240           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 209 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.93% | 99.13% | 97.09% | 96.04% | 95.68% | 95.68% | 95.68% | 95.68% | 95.68%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.07%  | 0.16%  | 0.23%  | 0.26%  | 0.26%  | 0.26%  | 0.26%  | 0.26%         |

| Zephyr™ XL DR<br>MODEL 5826  |            |                                  | W/ COM | NCTIONS<br>PROMISED<br>ERAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |  |
|------------------------------|------------|----------------------------------|--------|------------------------------|--|---------|--|
|                              |            |                                  | QTY    | RATE                         | QTY  | RATE    |  |
| US Regulatory Approval       | March 2007 | Electrical Component             | 1      | <0.01%                       | 25   | 0.02%   |  |
| Registered US Implants       | 113,816    | Electrical Interconnect          | 4      | <0.01%                       | 0  | 0.00%   |  |
| Estimated Active US Implants | 18,648     | Battery                          | 0      | 0.00%                        | 0  | 0.00%   |  |
| Estimated Longevity          | 11.7 Years | Software/Firmware                | 0      | 0.00%                        | 16   | 0.01%   |  |
| Normal Battery Depletion     | 693        | Mechanical                       | 1      | <0.01%                       | 9  | < 0.01% |  |
| Number of US Advisories      | None       | Possible Early Battery Depletion | 0      | 0.00%                        | 3  | < 0.01% |  |
|                              |            | Other                            | 2      | <0.01%                       | 159  | 0.14%   |  |
|                              |            | Total                            | 8      | <0.01%                       | 212  | 0.19%   |  |

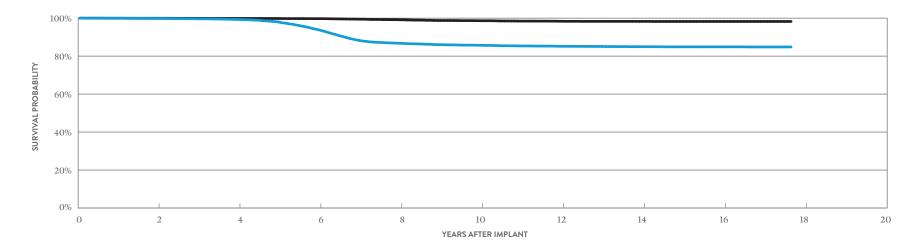


| INCLUDING NORMAL BATTERY DEPLETION |
|------------------------------------|
|------------------------------------|

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 198 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.83% | 99.48% | 98.12% | 96.98% | 96.13% | 95.32% | 95.26% | 95.21% | 95.21%        |
| ±1 STANDARD ERROR    | 0.01%  | 0.02%  | 0.05%  | 0.07%  | 0.09%  | 0.10%  | 0.11%  | 0.11%  | 0.11%         |
| SAMPLE SIZE          | 92,490 | 72,390 | 56,890 | 40,780 | 28,840 | 21,310 | 15,180 | 3,770  | 220           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 198 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.93% | 99.88% | 99.75% | 99.29% | 99.01% | 98.81% | 98.78% | 98.78% | 98.78%        |
| ±1 STANDARD ERROR    | 0.01%  | 0.01%  | 0.02%  | 0.04%  | 0.05%  | 0.06%  | 0.06%  | 0.06%  | 0.06%         |

| Victory™ XL DR<br>MODEL 5816 |               |                                  | W/ COM | NCTIONS<br>PROMISED<br>ERAPY | W/O COM | NCTIONS<br>PROMISED<br>RAPY |
|------------------------------|---------------|----------------------------------|--------|------------------------------|---------|-----------------------------|
|                              |               |                                  | QTY    | RATE                         | QTY     | RATE                        |
| US Regulatory Approval       | December 2005 | Electrical Component             | 2      | <0.01%                       | 31      | 0.05%                       |
| Registered US Implants       | 63,053        | Electrical Interconnect          | 0      | 0.00%                        | 0       | 0.00%                       |
| Estimated Active US Implants | 7,042         | Battery                          | 0      | 0.00%                        | 0       | 0.00%                       |
| Estimated Longevity          | 11.7 Years    | Software/Firmware                | 0      | 0.00%                        | 8       | 0.01%                       |
| Normal Battery Depletion     | 1,523         | Mechanical                       | 0      | 0.00%                        | 9       | 0.01%                       |
| Number of US Advisories      | None          | Possible Early Battery Depletion | 0      | 0.00%                        | 5       | <0.01%                      |
|                              |               | Other                            | 1      | < 0.01%                      | 92      | 0.15%                       |
|                              |               | Total                            | 3      | <0.01%                       | 145     | 0.23%                       |



| INCLUDING | NORMAL BA | TTERY DEP |  |
|-----------|-----------|-----------|--|
|           |           |           |  |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 212 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.83% | 99.30% | 93.78% | 86.74% | 85.70% | 85.18% | 84.96% | 84.89% | 84.83%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.04%  | 0.13%  | 0.20%  | 0.21%  | 0.22%  | 0.23%  | 0.23%  | 0.23%         |
| SAMPLE SIZE          | 51,250 | 39,200 | 29,600 | 19,060 | 12,500 | 9,730  | 8,070  | 5,250  | 200           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 212 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.95% | 99.85% | 99.73% | 99.13% | 98.64% | 98.35% | 98.28% | 98.25% | 98.25%        |
| ±1 STANDARD ERROR    | 0.01%  | 0.02%  | 0.03%  | 0.06%  | 0.08%  | 0.10%  | 0.10%  | 0.10%  | 0.10%         |

SUMMARY INFORMATION Dual-Chamber Pacemakers

Survival Probability Summary

### INCLUDING NORMAL BATTERY DEPLETION

| MODELS | FAMILY                     | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|--------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| PM2272 | Assurity MRI <sup>**</sup> | 99.96% | 99.82% | 99.44% | 98.76% | 97.94% | 96.95% |        |        |        |         |
| PM2160 | Endurity" DR               | 99.82% | 99.77% | 99.75% | 99.63% | 99.50% | 99.01% | 97.90% | 96.42% | 96.24% |         |
| PM2240 | Assurity DR RF             | 99.95% | 99.90% | 99.78% | 99.49% | 98.78% | 97.66% | 96.28% | 94.40% | 94.31% |         |
| PM2210 | Accent <sup>®</sup> DR RF  | 99.92% | 99.86% | 99.77% | 99.60% | 99.31% | 98.63% | 97.03% | 96.92% | 96.80% | 96.55%  |
| PM2110 | Accent" DR                 | 99.94% | 99.89% | 99.81% | 99.62% | 99.38% | 98.74% | 97.45% | 97.37% | 97.31% | 97.12%  |
| 5820   | Zephyr <sup>®</sup> DR     | 99.85% | 99.75% | 99.01% | 93.70% | 82.08% | 79.31% | 78.65% | 78.37% | 78.30% | 78.26%  |
| 5810   | Victory DR                 | 99.87% | 99.74% | 98.61% | 88.52% | 65.34% | 48.99% | 42.57% | 41.81% | 41.62% | 41.47%  |
| 5826   | Zephyr <sup>~</sup> XL DR  | 99.91% | 99.83% | 99.74% | 99.48% | 98.78% | 98.12% | 97.64% | 96.98% | 96.46% | 96.13%  |
| 5816   | Victory XL DR              | 99.91% | 99.83% | 99.65% | 99.30% | 97.94% | 93.78% | 88.21% | 86.74% | 86.03% | 85.70%  |

| MODELS | FAMILY | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| PM2272 | 99.96% | 99.83% | 99.49% | 98.86% | 98.17% | 97.40% |        |        |        |        |         |
| PM2160 | 99.85% | 99.82% | 99.82% | 99.76% | 99.73% | 99.66% | 99.31% | 98.92% | 98.73% |        |         |
| PM2240 | 99.96% | 99.92% | 99.84% | 99.67% | 99.23% | 98.49% | 97.70% | 96.82% | 96.75% |        |         |
| PM2210 | 99.95% | 99.90% | 99.84% | 99.79% | 99.76% | 99.74% | 99.71% | 99.71% | 99.70% | 99.69% | 99.69%  |
| PM2110 | 99.97% | 99.95% | 99.93% | 99.93% | 99.93% | 99.90% | 99.90% | 99.90% | 99.90% | 99.90% | 99.90%  |
| 5820   | 99.97% | 99.96% | 99.92% | 99.64% | 99.25% | 99.00% | 98.79% | 98.63% | 98.59% | 98.57% | 98.57%  |
| 5810   | 99.98% | 99.93% | 99.67% | 99.13% | 97.54% | 97.09% | 96.49% | 96.04% | 95.83% | 95.68% | 95.68%  |
| 5826   | 99.96% | 99.93% | 99.91% | 99.88% | 99.82% | 99.75% | 99.56% | 99.29% | 99.12% | 99.01% | 99.01%  |
| 5816   | 99.97% | 99.95% | 99.91% | 99.85% | 99.80% | 99.73% | 99.43% | 99.13% | 98.76% | 98.64% | 98.65%  |

US Malfunction Summary

### WITH COMPROMISED THERAPY

|        |                           | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>PONENT |     | TRICAL<br>ONNECT | BAT | TERY  |     | WARE/  | MECH | IANICAL | BAT | LE EARLY<br>TERY<br>.ETION | от  | HER    | тс  | TAL    |
|--------|---------------------------|-------------|----------------------------|-----|------------------|-----|------------------|-----|-------|-----|--------|------|---------|-----|----------------------------|-----|--------|-----|--------|
| MODELS | FAMILY                    | US IMPLANTS | ANALYSIS                   | QTY | RATE             | QTY | RATE             | QTY | RATE  | QTY | RATE   | QTY  | RATE    | QTY | RATE                       | QTY | RATE   | QTY | RATE   |
| PM2272 | Assurity MRI              | 416,445     | 2.80%                      | 2   | <0.01%           | 0   | 0.00%            | 0   | 0.00% | 2   | <0.01% | 62   | 0.01%   | 0   | 0.00%                      | 3   | <0.01% | 69  | 0.02%  |
| PM2160 | Endurity <sup>®</sup> DR  | 9,408       | 5.50%                      | 0   | 0.00%            | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%  | 0    | 0.00%   | 0   | 0.00%                      | 0   | 0.00%  | 0   | 0.00%  |
| PM2240 | Assurity DR RF            | 185,826     | 6.50%                      | 5   | <0.01%           | 0   | 0.00%            | 0   | 0.00% | 1   | <0.01% | 102  | 0.05%   | 3   | <0.01%                     | 0   | 0.00%  | 111 | 0.06%  |
| PM2210 | Accent" DR RF             | 244,866     | 12.40%                     | 17  | <0.01%           | 8   | <0.01%           | 0   | 0.00% | 0   | 0.00%  | 1    | <0.01%  | 7   | <0.01%                     | 5   | <0.01% | 38  | 0.02%  |
| PM2110 | Accent <sup>®</sup> DR    | 49,131      | 10.50%                     | 2   | <0.01%           | 2   | <0.01%           | 0   | 0.00% | 0   | 0.00%  | 0    | 0.00%   | 0   | 0.00%                      | 0   | 0.00%  | 4   | <0.01% |
| 5820   | Zephyr <sup>-</sup> DR    | 54,733      | 16.40%                     | 2   | <0.01%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%  | 0    | 0.00%   | 0   | 0.00%                      | 0   | 0.00%  | 2   | <0.01% |
| 5810   | Victory DR                | 26,314      | 19.20%                     | 1   | <0.01%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%  | 0    | 0.00%   | 0   | 0.00%                      | 0   | 0.00%  | 1   | <0.01% |
| 5826   | Zephyr <sup>-</sup> XL DR | 113,816     | 19.20%                     | 1   | <0.01%           | 4   | < 0.01%          | 0   | 0.00% | 0   | 0.00%  | 1    | <0.01%  | 0   | 0.00%                      | 2   | <0.01% | 8   | <0.01% |
| 5816   | Victory XL DR             | 63,053      | 20.90%                     | 2   | <0.01%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%  | 0    | 0.00%   | 0   | 0.00%                      | 1   | <0.01% | 3   | <0.01% |

### WITHOUT COMPROMISED THERAPY

|        |                           | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>PONENT |     | TRICAL | BAT | TERY  |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>.ETION | 01  | HER    | то   | DTAL  |
|--------|---------------------------|-------------|----------------------------|-----|------------------|-----|--------|-----|-------|-----|---------------|------|--------|-----|----------------------------|-----|--------|------|-------|
| MODELS | FAMILY                    | US IMPLANTS | ANALYSIS                   | QTY | RATE             | QTY | RATE   | QTY | RATE  | QTY | RATE          | QTY  | RATE   | QTY | RATE                       | QTY | RATE   | QTY  | RATE  |
| PM2272 | Assurity MRI <sup>-</sup> | 416,445     | 2.80%                      | 22  | <0.01%           | 0   | 0.00%  | 0   | 0.00% | 66  | 0.02%         | 1039 | 0.25%  | 1   | <0.01%                     | 10  | <0.01% | 1138 | 0.27% |
| PM2160 | Endurity <sup>®</sup> DR  | 9,408       | 5.50%                      | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00% | 0   | 0.00%         | 28   | 0.30%  | 0   | 0.00%                      | 2   | 0.02%  | 30   | 0.32% |
| PM2240 | Assurity" DR RF           | 185,826     | 6.50%                      | 24  | 0.01%            | 0   | 0.00%  | 0   | 0.00% | 36  | 0.02%         | 1073 | 0.58%  | 3   | <0.01%                     | 10  | <0.01% | 1146 | 0.62% |
| PM2210 | Accent DR RF              | 244,866     | 12.40%                     | 54  | 0.02%            | 33  | 0.01%  | 0   | 0.00% | 5   | <0.01%        | 22   | <0.01% | 24  | <0.01%                     | 48  | 0.02%  | 186  | 0.08% |
| PM2110 | Accent DR                 | 49,131      | 10.50%                     | 3   | <0.01%           | 0   | 0.00%  | 0   | 0.00% | 4   | <0.01%        | 5    | 0.01%  | 2   | <0.01%                     | 0   | 0.00%  | 14   | 0.03% |
| 5820   | Zephyr <sup>-</sup> DR    | 54,733      | 16.40%                     | 36  | 0.07%            | 0   | 0.00%  | 0   | 0.00% | 9   | 0.02%         | 2    | <0.01% | 1   | <0.01%                     | 93  | 0.17%  | 141  | 0.26% |
| 5810   | Victory DR                | 26,314      | 19.20%                     | 89  | 0.34%            | 0   | 0.00%  | 0   | 0.00% | 8   | 0.03%         | 2    | <0.01% | 17  | 0.06%                      | 37  | 0.14%  | 153  | 0.58% |
| 5826   | Zephyr <sup>®</sup> XL DR | 113,816     | 19.20%                     | 25  | 0.02%            | 0   | 0.00%  | 0   | 0.00% | 16  | 0.01%         | 9    | <0.01% | 3   | <0.01%                     | 159 | 0.14%  | 212  | 0.19% |
| 5816   | Victory XL DR             | 63,053      | 20.90%                     | 31  | 0.05%            | 0   | 0.00%  | 0   | 0.00% | 8   | 0.01%         | 9    | 0.01%  | 5   | <0.01%                     | 92  | 0.15%  | 145  | 0.23% |

Definitions of malfunction categories can be found on pages 5-6.

Worldwide Malfunction Summary

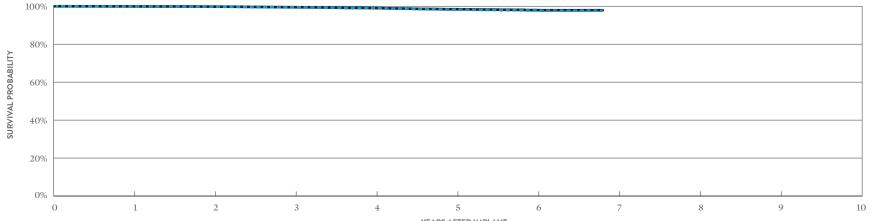
### WITH COMPROMISED THERAPY

|        |                          | WORLDWIDE | PERCENT<br>RETURNED FOR |     | TRICAL<br>ONENT |     | TRICAL  | BAT | TERY  |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>.ETION | זס  | HER    | то  | TAL   |
|--------|--------------------------|-----------|-------------------------|-----|-----------------|-----|---------|-----|-------|-----|---------------|------|--------|-----|----------------------------|-----|--------|-----|-------|
| MODELS | FAMILY                   | SALES     | ANALYSIS                | QTY | RATE            | QTY | RATE    | QTY | RATE  | QTY | RATE          | QTY  | RATE   | QTY | RATE                       | QTY | RATE   | QTY | RATE  |
| PM2272 | Assurity MRI             | 946,648   | 1.77%                   | 18  | <0.01%          | 2   | <0.01%  | 0   | 0.00% | 4   | <0.01%        | 360  | 0.04%  | 0   | 0.00%                      | 10  | <0.01% | 394 | 0.04% |
| PM2160 | Endurity <sup>®</sup> DR | 71,541    | 1.06%                   | 4   | <0.01%          | 0   | 0.00%   | 0   | 0.00% | 0   | 0.00%         | 4    | <0.01% | 0   | 0.00%                      | 0   | 0.00%  | 8   | 0.01% |
| PM2240 | Assurity" DR RF          | 206,629   | 5.71%                   | 10  | <0.01%          | 0   | 0.00%   | 0   | 0.00% | 2   | <0.01%        | 206  | 0.10%  | 6   | <0.01%                     | 0   | 0.00%  | 224 | 0.11% |
| PM2210 | Accent" DR RF            | 246,721   | 11.93%                  | 34  | 0.01%           | 16  | <0.01%  | 0   | 0.00% | 0   | 0.00%         | 2    | <0.01% | 12  | <0.01%                     | 10  | <0.01% | 74  | 0.03% |
| PM2110 | Accent <sup>®</sup> DR   | 49,730    | 9.99%                   | 4   | <0.01%          | 4   | < 0.01% | 0   | 0.00% | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                      | 0   | 0.00%  | 8   | 0.02% |

### WITHOUT COMPROMISED THERAPY

|        |                           | WORLDWIDE | PERCENT<br>RETURNED FOR |     | TRICAL<br>ONENT |     | IRICAL<br>ONNECT | BAT | TERY  |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>LETION | от  | HER    | то   | TAL   |
|--------|---------------------------|-----------|-------------------------|-----|-----------------|-----|------------------|-----|-------|-----|---------------|------|--------|-----|----------------------------|-----|--------|------|-------|
| MODELS | FAMILY                    | SALES     | ANALYSIS                | QTY | RATE            | QTY | RATE             | QTY | RATE  | QTY | RATE          | QTY  | RATE   | QTY | RATE                       | QTY | RATE   | QTY  | RATE  |
| PM2272 | Assurity MRI <sup>-</sup> | 946,648   | 1.77%                   | 100 | 0.01%           | 0   | 0.00%            | 0   | 0.00% | 136 | 0.01%         | 2810 | 0.30%  | 16  | <0.01%                     | 34  | <0.01% | 3096 | 0.33% |
| PM2160 | Endurity <sup>-</sup> DR  | 71,541    | 1.06%                   | 2   | <0.01%          | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00%         | 86   | 0.12%  | 0   | 0.00%                      | 6   | <0.01% | 94   | 0.13% |
| PM2240 | Assurity DR RF            | 206,629   | 5.71%                   | 54  | 0.03%           | 0   | 0.00%            | 0   | 0.00% | 70  | 0.03%         | 2044 | 0.99%  | 8   | <0.01%                     | 22  | 0.01%  | 2198 | 1.06% |
| PM2210 | Accent DR RF              | 246,721   | 11.93%                  | 114 | 0.05%           | 68  | 0.03%            | 0   | 0.00% | 10  | <0.01%        | 44   | 0.02%  | 48  | 0.02%                      | 94  | 0.04%  | 378  | 0.15% |
| PM2110 | Accent <sup>®</sup> DR    | 49,730    | 9.99%                   | 6   | 0.01%           | 0   | 0.00%            | 0   | 0.00% | 8   | 0.02%         | 10   | 0.02%  | 4   | <0.01%                     | 0   | 0.00%  | 28   | 0.06% |

| Assurity MRI™<br>MODEL PM1272                    |              |                                  | W/ COM | NCTIONS<br>PROMISED<br>RAPY | THERAPY |        |  |
|--|--------------|----------------------------------|--------|-----------------------------|---------|--------|--|
|  |              |                                  | QTY    | RATE                        | QTY     | RATE   |  |
| US Regulatory Approval                           | January 2017 | Electrical Component             | 0      | 0.00%                       | 2       | <0.01% |  |
| Registered US Implants                           | 38,701       | Electrical Interconnect          | 0      | 0.00%                       | 0       | 0.00%  |  |
| Estimated Active US Implants                     | 26,215       | Battery                          | 0      | 0.00%                       | 0       | 0.00%  |  |
| Estimated Longevity                              | 13.7 Years   | Software/Firmware                | 0      | 0.00%                       | 4       | 0.01%  |  |
| Normal Battery Depletion                         | 12           | Mechanical                       | 1      | <0.01%                      | 103     | 0.27%  |  |
| Number of US Advisories (see pgs. 215, 216, 218) | Three        | Possible Early Battery Depletion | 0      | 0.00%                       | 0       | 0.00%  |  |
|  |              | Other                            | 0      | 0.00%                       | 0       | 0.00%  |  |
|  |              | Total                            | 1      | <0.01%                      | 109     | 0.28%  |  |



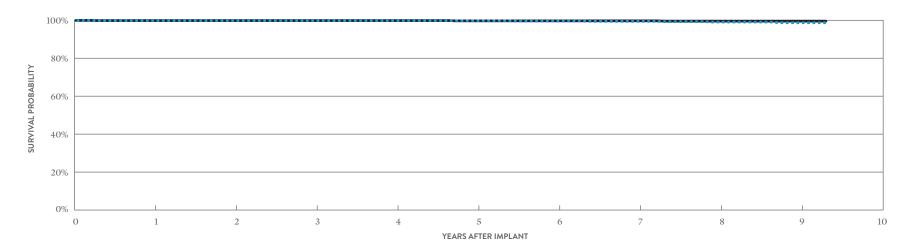
YEARS AFTER IMPLANT

#### INCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | AT 82 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.92% | 99.82% | 99.44% | 98.96% | 98.24% | 97.75% | 97.68%       |
| ±1 STANDARD ERROR    | 0.01%  | 0.03%  | 0.05%  | 0.07%  | 0.11%  | 0.15%  | 0.16%        |
| SAMPLE SIZE          | 34,110 | 26,340 | 20,370 | 15,080 | 10,040 | 5,250  | 350          |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | AT 82 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------------|
| SURVIVAL PROBABILITY | 99.93% | 99.83% | 99.50% | 99.05% | 98.44% | 97.98% | 97.91%       |
| ± 1 STANDARD ERROR   | 0.01%  | 0.03%  | 0.05%  | 0.07%  | 0.11%  | 0.14%  | 0.15%        |

| Endurity™ VR<br>MODEL PM1160                |            |                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |  |
|---|------------|----------------------------------|---------|-----------------------------|--|-------|--|
|   |            |                                  | QTY     | RATE                        | QTY  | RATE  |  |
| US Regulatory Approval                      | March 2014 | Electrical Component             | 0       | 0.00%                       | 0  | 0.00% |  |
| Registered US Implants                      | 2,571      | Electrical Interconnect          | 0       | 0.00%                       | 0  | 0.00% |  |
| Estimated Active US Implants                | 1,195      | Battery                          | 0       | 0.00%                       | 0  | 0.00% |  |
| Estimated Longevity                         | 14.6 Years | Software/Firmware                | 0       | 0.00%                       | 0  | 0.00% |  |
| Normal Battery Depletion                    | 4          | Mechanical                       | 0       | 0.00%                       | 3  | 0.12% |  |
| Number of US Advisories (see pgs. 217, 218) | Two        | Possible Early Battery Depletion | 0       | 0.00%                       | 0  | 0.00% |  |
|   |            | Other                            | 0       | 0.00%                       | 1  | 0.04% |  |
|   |            | Total                            | 0       | 0.00%                       | 4  | 0.16% |  |

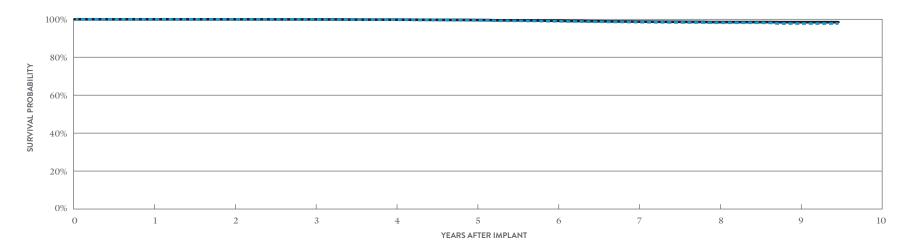


| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 112 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.84% | 99.84% | 99.84% | 99.84% | 99.71% | 99.58% | 99.44% | 99.07% | 98.70% | 98.70%        |
| ± 1 STANDARD ERROR   | 0.08%  | 0.08%  | 0.08%  | 0.08%  | 0.12%  | 0.15%  | 0.18%  | 0.26%  | 0.37%  | 0.37%         |
| SAMPLE SIZE          | 2,390  | 2,110  | 1,920  | 1,760  | 1,650  | 1,520  | 1,350  | 1,090  | 640    | 230           |

| EXCLUDING NORM | AL BATTERY DEPLETION |   |   |   |
|----------------|----------------------|---|---|---|
| YEAR           | 1                    | 2 | 3 | 4 |

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 112 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.84% | 99.84% | 99.84% | 99.84% | 99.71% | 99.71% | 99.71% | 99.55% | 99.55% | 99.55%        |
| ±1 STANDARD ERROR    | 0.08%  | 0.08%  | 0.08%  | 0.08%  | 0.12%  | 0.12%  | 0.12%  | 0.17%  | 0.17%  | 0.17%         |

| Assurity <sup>™</sup> VR<br>MODEL PM1240         | •          |                                  |     |       |     |        |  |
|--|------------|----------------------------------|-----|-------|-----|--------|--|
|  |            |                                  | QTY | RATE  | QTY | RATE   |  |
| US Regulatory Approval                           | March 2014 | Electrical Component             | 0   | 0.00% | 4   | 0.01%  |  |
| Registered US Implants                           | 28,741     | Electrical Interconnect          | 0   | 0.00% | 0   | 0.00%  |  |
| Estimated Active US Implants                     | 14,302     | Battery                          | 0   | 0.00% | 0   | 0.00%  |  |
| Estimated Longevity                              | 14.1 Years | Software/Firmware                | 0   | 0.00% | 3   | 0.01%  |  |
| Normal Battery Depletion                         | 29         | Mechanical                       | 3   | 0.01% | 84  | 0.29%  |  |
| Number of US Advisories (see pgs. 215, 216, 218) | Three      | Possible Early Battery Depletion | 0   | 0.00% | 1   | <0.01% |  |
|  |            | Other                            | 0   | 0.00% | 0   | 0.00%  |  |
|  |            | Total                            | 3   | 0.01% | 92  | 0.32%  |  |

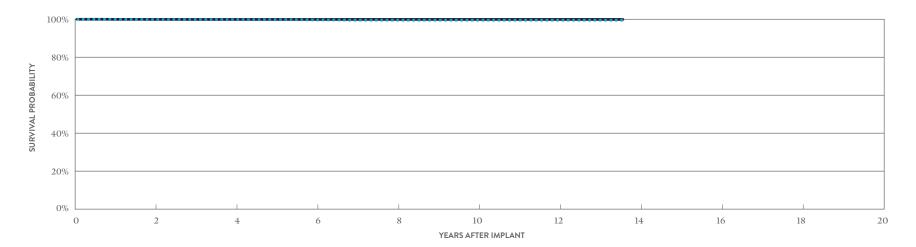


| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 114 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.98% | 99.96% | 99.91% | 99.77% | 99.41% | 98.96% | 98.50% | 98.16% | 97.76% | 97.76%        |
| ±1 STANDARD ERROR    | 0.01%  | 0.01%  | 0.02%  | 0.03%  | 0.05%  | 0.07%  | 0.09%  | 0.11%  | 0.16%  | 0.16%         |
| SAMPLE SIZE          | 27,010 | 24,160 | 22,150 | 20,420 | 18,700 | 16,630 | 13,590 | 8,980  | 3,890  | 290           |

| EXCLUDING NORMAL | BATTERY DEPLETION 📥 |
|------------------|---------------------|
|------------------|---------------------|

| YEAR                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | AT 114 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.98% | 99.96% | 99.93% | 99.83% | 99.59% | 99.21% | 98.79% | 98.53% | 98.47% | 98.47%        |
| ±1 STANDARD ERROR    | 0.01%  | 0.01%  | 0.02%  | 0.03%  | 0.04%  | 0.06%  | 0.08%  | 0.10%  | 0.11%  | 0.11%         |

| Accent <sup>™</sup> SR<br>MODEL PM1110 |            |                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |         |  |
|--|------------|----------------------------------|---------|-----------------------------|--|---------|--|
|  |            |                                  | QTY     | RATE                        | QTY  | RATE    |  |
| US Regulatory Approval                 | July 2009  | Electrical Component             | 0       | 0.00%                       | 2  | 0.01%   |  |
| Registered US Implants                 | 13,595     | Electrical Interconnect          | 0       | 0.00%                       | 0  | 0.00%   |  |
| Estimated Active US Implants           | 4,642      | Battery                          | 0       | 0.00%                       | 0  | 0.00%   |  |
| Estimated Longevity                    | 12.9 Years | Software/Firmware                | 0       | 0.00%                       | 1  | <0.01%  |  |
| Normal Battery Depletion               | 15         | Mechanical                       | 0       | 0.00%                       | 0  | 0.00%   |  |
| Number of US Advisories                | None       | Possible Early Battery Depletion | 0       | 0.00%                       | 1  | < 0.01% |  |
|  |            | Other                            | 0       | 0.00%                       | 0  | 0.00%   |  |
|  |            | Total                            | 0       | 0.00%                       | 4  | 0.03%   |  |

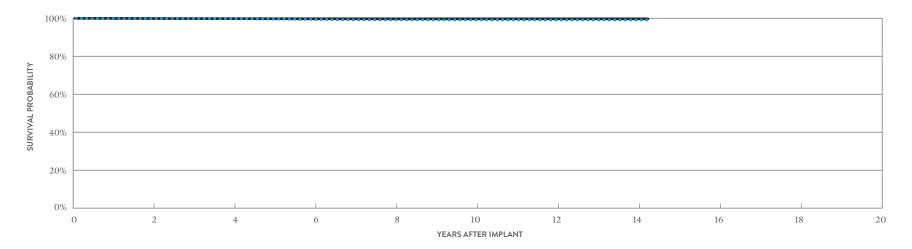


| INCLUDING NORMAL BATTERY DEPLETION |  |
|------------------------------------|--|
|------------------------------------|--|

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 163 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.87% | 99.80% | 99.66% | 99.54% | 99.54% | 99.54% | 99.54%        |
| ± 1 STANDARD ERROR   | 0.03%  | 0.04%  | 0.06%  | 0.08%  | 0.08%  | 0.08%  | 0.08%         |
| SAMPLE SIZE          | 10,680 | 8,480  | 7,200  | 6,290  | 4,990  | 2,220  | 220           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 163 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.94% | 99.92% | 99.92% | 99.92% | 99.92% | 99.92% | 99.92%        |
| ± 1 STANDARD ERROR   | 0.02%  | 0.03%  | 0.03%  | 0.03%  | 0.03%  | 0.03%  | 0.03%         |

| Accent <sup>™</sup> SR RF<br>MODEL PM1210   |            | W/ COM                           | NCTIONS<br>PROMISED<br>ERAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |     |        |
|---|------------|----------------------------------|------------------------------|--|-----|--------|
|   |            |                                  | QTY                          | RATE                                       | QTY | RATE   |
| US Regulatory Approval                      | July 2009  | Electrical Component             | 3                            | <0.01%                                     | 11  | 0.03%  |
| Registered US Implants                      | 40,045     | Electrical Interconnect          | 1                            | < 0.01%                                    | 3   | <0.01% |
| Estimated Active US Implants                | 12,981     | Battery                          | 0                            | 0.00%                                      | 1   | <0.01% |
| Estimated Longevity                         | 10.9 Years | Software/Firmware                | 0                            | 0.00%                                      | 1   | <0.01% |
| Normal Battery Depletion                    | 51         | Mechanical                       | 0                            | 0.00%                                      | 4   | 0.01%  |
| Number of US Advisories (see pgs. 215, 218) | Two        | Possible Early Battery Depletion | 2                            | < 0.01%                                    | 3   | <0.01% |
|   |            | Other                            | 0                            | 0.00%                                      | 8   | 0.02%  |
|   |            | Total                            | 6                            | 0.02%                                      | 31  | 0.08%  |

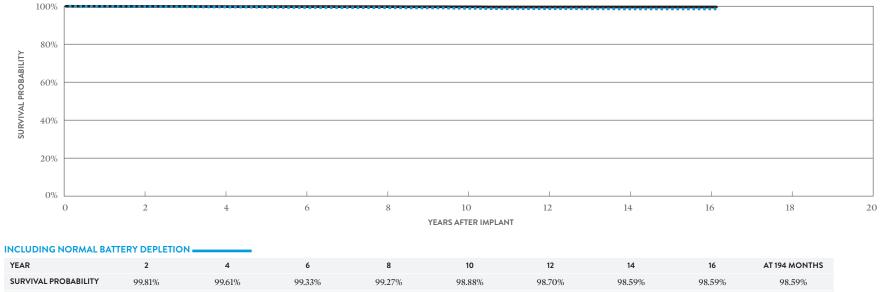


99.70% 0.03%

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 171 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.80% | 99.73% | 99.40% | 99.20% | 99.18% | 99.14% | 99.14% | 99.14%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.03%  | 0.05%  | 0.06%  | 0.06%  | 0.06%  | 0.06%  | 0.06%         |
| SAMPLE SIZE          | 31,340 | 24,960 | 20,940 | 18,140 | 14,490 | 6,830  | 1,380  | 250           |

| EXCLUDING NORMAL BAT | EXCLUDING NORMAL BATTERY DEPLETION |        |        |        |        |        |        |               |  |  |  |  |  |
|----------------------|------------------------------------|--------|--------|--------|--------|--------|--------|---------------|--|--|--|--|--|
| YEAR                 | 2                                  | 4      | 6      | 8      | 10     | 12     | 14     | AT 171 MONTHS |  |  |  |  |  |
| SURVIVAL PROBABILITY | 99.87%                             | 99.81% | 99.74% | 99.70% | 99.70% | 99.70% | 99.70% | 99.70%        |  |  |  |  |  |
| ±1 STANDARD ERROR    | 0.02%                              | 0.02%  | 0.03%  | 0.03%  | 0.03%  | 0.03%  | 0.03%  | 0.03%         |  |  |  |  |  |

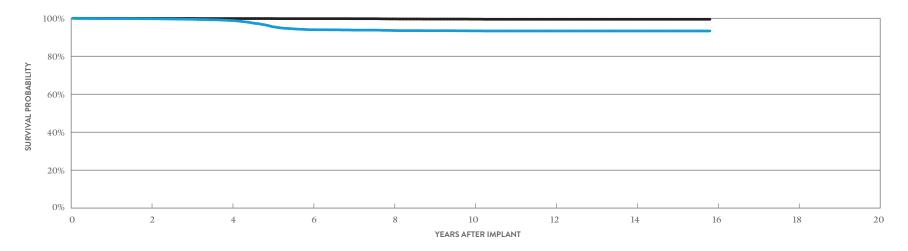
| Zephyr <sup>™</sup> XL SR<br>MODEL 5626 |            | W/ COM                           | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |     |       |
|---|------------|----------------------------------|-----------------------------|--|-----|-------|
|   |            |                                  | QTY                         | RATE                                       | QTY | RATE  |
| US Regulatory Approval                  | May 2007   | Electrical Component             | 0                           | 0.00%                                      | 4   | 0.02% |
| Registered US Implants                  | 20,881     | Electrical Interconnect          | 1                           | <0.01%                                     | 0   | 0.00% |
| Estimated Active US Implants            | 4,402      | Battery                          | 0                           | 0.00%                                      | 0   | 0.00% |
| Estimated Longevity                     | 15.8 Years | Software/Firmware                | 0                           | 0.00%                                      | 0   | 0.00% |
| Normal Battery Depletion                | 41         | Mechanical                       | 0                           | 0.00%                                      | 0   | 0.00% |
| Number of US Advisories                 | None       | Possible Early Battery Depletion | 0                           | 0.00%                                      | 0   | 0.00% |
|   |            | Other                            | 1                           | <0.01%                                     | 13  | 0.06% |
|   |            | Total                            | 2                           | <0.01%                                     | 17  | 0.08% |



| ± 1 STANDARD ERROR | 0.03%  | 0.05%  | 0.08% | 0.08% | 0.11% | 0.13% | 0.14% | 0.14% | 0.14% |
|--------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| SAMPLE SIZE        | 15,590 | 11,540 | 8,990 | 7,420 | 6,010 | 4,750 | 3,420 | 780   | 210   |
|                    |        |        |       |       |       |       |       |       |       |

| EXCLUDING NORMAL BAT | EXCLUDING NORMAL BATTERY DEPLETION |        |        |        |        |        |        |        |               |  |  |  |
|----------------------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------------|--|--|--|
| YEAR                 | 2                                  | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 194 MONTHS |  |  |  |
| SURVIVAL PROBABILITY | 99.93%                             | 99.87% | 99.83% | 99.80% | 99.71% | 99.60% | 99.60% | 99.60% | 99.60%        |  |  |  |
| ±1 STANDARD ERROR    | 0.02%                              | 0.03%  | 0.04%  | 0.04%  | 0.05%  | 0.07%  | 0.07%  | 0.07%  | 0.07%         |  |  |  |

| Zephyr™ SR<br>MODEL 5620     | W/ COM     | NCTIONS<br>PROMISED<br>ERAPY     | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |        |     |       |
|------------------------------|------------|----------------------------------|--|--------|-----|-------|
|                              |            |                                  | QTY  | RATE   | QTY | RATE  |
| US Regulatory Approval       | March 2007 | Electrical Component             | 0  | 0.00%  | 4   | 0.02% |
| Registered US Implants       | 17,530     | Electrical Interconnect          | 0  | 0.00%  | 0   | 0.00% |
| Estimated Active US Implants | 4,041      | Battery                          | 0  | 0.00%  | 0   | 0.00% |
| Estimated Longevity          | 8.8 Years  | Software/Firmware                | 0  | 0.00%  | 2   | 0.01% |
| Normal Battery Depletion     | 208        | Mechanical                       | 1  | <0.01% | 0   | 0.00% |
| Number of US Advisories      | None       | Possible Early Battery Depletion | 0  | 0.00%  | 0   | 0.00% |
|                              |            | Other                            | 0  | 0.00%  | 11  | 0.06% |
|                              |            | Total                            | 1  | <0.01% | 17  | 0.10% |

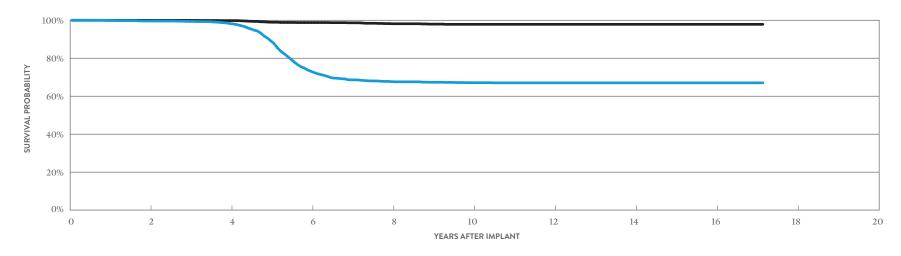


| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 190 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.74% | 98.81% | 93.98% | 93.56% | 93.36% | 93.30% | 93.30% | 93.30%        |
| ± 1 STANDARD ERROR   | 0.04%  | 0.10%  | 0.26%  | 0.27%  | 0.28%  | 0.28%  | 0.28%  | 0.28%         |
| SAMPLE SIZE          | 12,620 | 9,350  | 7,150  | 5,470  | 4,110  | 2,640  | 1,310  | 200           |

| EXCLUDING | NORMAL BAT | TERY DEPLI | ETION |
|-----------|------------|------------|-------|
|           |            |            |       |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 190 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.94% | 99.85% | 99.80% | 99.65% | 99.52% | 99.46% | 99.46% | 99.46%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.04%  | 0.04%  | 0.07%  | 0.09%  | 0.10%  | 0.10%  | 0.10%         |

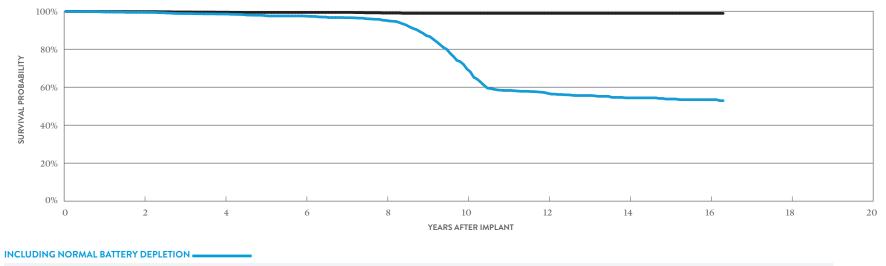
| Victory <sup>™</sup> SR<br>MODEL 5610 |               |                                  | W/ COM | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |        |
|---------------------------------------|---------------|----------------------------------|--------|-----------------------------|--|--------|
|                                       |               |                                  | QTY    | RATE                        | QTY  | RATE   |
| US Regulatory Approval                | December 2005 | Electrical Component             | 0      | 0.00%                       | 25   | 0.18%  |
| Registered US Implants                | 13,690        | Electrical Interconnect          | 0      | 0.00%                       | 0  | 0.00%  |
| Estimated Active US Implants          | 1,486         | Battery                          | 0      | 0.00%                       | 0  | 0.00%  |
| Estimated Longevity                   | 8.8 Years     | Software/Firmware                | 0      | 0.00%                       | 1  | <0.01% |
| Normal Battery Depletion              | 670           | Mechanical                       | 0      | 0.00%                       | 0  | 0.00%  |
| Number of US Advisories               | None          | Possible Early Battery Depletion | 0      | 0.00%                       | 1  | <0.01% |
|                                       |               | Other                            | 1      | < 0.01%                     | 12   | 0.09%  |
|                                       |               | Total                            | 1      | <0.01%                      | 39   | 0.28%  |



| INCLUDING NORMAL BATTERY DEPLETION |        |        |        |        |        |        |        |        |               |  |  |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--|--|
| YEAR                               | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 206 MONTHS |  |  |
| SURVIVAL PROBABILITY               | 99.62% | 98.26% | 73.08% | 67.65% | 67.13% | 67.05% | 67.05% | 67.05% | 67.05%        |  |  |
| ±1 STANDARD ERROR                  | 0.06%  | 0.14%  | 0.59%  | 0.65%  | 0.66%  | 0.66%  | 0.66%  | 0.66%  | 0.66%         |  |  |
| SAMPLE SIZE                        | 9,840  | 6,750  | 4,290  | 2,560  | 1,840  | 1,690  | 1,520  | 1,000  | 240           |  |  |

| EXCLUDING NORMAL BAT | EXCLUDING NORMAL BATTERY DEPLETION |        |        |        |        |        |        |        |               |  |  |  |
|----------------------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------------|--|--|--|
| YEAR                 | 2                                  | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 206 MONTHS |  |  |  |
| SURVIVAL PROBABILITY | 99.96%                             | 99.82% | 98.80% | 98.17% | 97.86% | 97.86% | 97.86% | 97.86% | 97.86%        |  |  |  |
| ± 1 STANDARD ERROR   | 0.02%                              | 0.05%  | 0.15%  | 0.20%  | 0.25%  | 0.25%  | 0.25%  | 0.25%  | 0.25%         |  |  |  |

| Microny™<br>MODEL 2525T      |            |                                  | W/ COMF | NCTIONS<br>PROMISED<br>RAPY | MALFUNCTIONS<br>W/O COMPROMISED<br>THERAPY |       |  |
|------------------------------|------------|----------------------------------|---------|-----------------------------|--|-------|--|
|                              |            |                                  | QTY     | RATE                        | QTY  | RATE  |  |
| US Regulatory Approval       | April 2001 | Electrical Component             | 0       | 0.00%                       | 1  | 0.01% |  |
| Registered US Implants       | 7,394      | Electrical Interconnect          | 0       | 0.00%                       | 0  | 0.00% |  |
| Estimated Active US Implants | 1,331      | Battery                          | 0       | 0.00%                       | 0  | 0.00% |  |
| Estimated Longevity          | 7.5 Years  | Software/Firmware                | 0       | 0.00%                       | 0  | 0.00% |  |
| Normal Battery Depletion     | 293        | Mechanical                       | 0       | 0.00%                       | 0  | 0.00% |  |
| Number of US Advisories      | None       | Possible Early Battery Depletion | 0       | 0.00%                       | 1  | 0.01% |  |
|                              |            | Other                            | 0       | 0.00%                       | 0  | 0.00% |  |
|                              |            | Total                            | 0       | 0.00%                       | 2  | 0.03% |  |



| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 196 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.42% | 98.56% | 97.45% | 95.17% | 69.58% | 56.78% | 54.39% | 53.44% | 52.92%        |
| ±1 STANDARD ERROR    | 0.10%  | 0.18%  | 0.26%  | 0.43%  | 1.13%  | 1.27%  | 1.31%  | 1.35%  | 1.38%         |
| SAMPLE SIZE          | 4,880  | 3,380  | 2,400  | 1,720  | 1,180  | 740    | 490    | 280    | 200           |

| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 196 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.82% | 99.52% | 99.39% | 99.04% | 98.90% | 98.90% | 98.90% | 98.90% | 98.90%        |
| ±1 STANDARD ERROR    | 0.06%  | 0.11%  | 0.13%  | 0.19%  | 0.21%  | 0.21%  | 0.21%  | 0.21%  | 0.21%         |

SUMMARY INFORMATION Single-Chamber Pacemakers

Survival Probability Summary

### INCLUDING NORMAL BATTERY DEPLETION

| MODELS | FAMILY                    | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|--------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| PM1272 | AssurityMRI               | 99.92% | 99.82% | 99.44% | 98.96% | 98.24% | 97.75% |        |        |        |         |
| PM1160 | Endurity SR               | 99.84% | 99.84% | 99.84% | 99.84% | 99.71% | 99.58% | 99.44% | 99.07% | 98.70% |         |
| PM1240 | Assurity <sup>®</sup> SR  | 99.98% | 99.96% | 99.91% | 99.77% | 99.41% | 98.96% | 98.50% | 98.16% | 97.76% |         |
| PM1110 | Accent SR                 | 99.92% | 99.87% | 99.84% | 99.80% | 99.77% | 99.66% | 99.54% | 99.54% | 99.54% | 99.54%  |
| PM1210 | Accent SR RF              | 99.88% | 99.80% | 99.76% | 99.73% | 99.59% | 99.40% | 99.24% | 99.20% | 99.18% | 99.18%  |
| 5626   | Zephyr <sup>~</sup> XL SR | 99.92% | 99.81% | 99.71% | 99.61% | 99.45% | 99.33% | 99.30% | 99.27% | 99.13% | 98.88%  |
| 5620   | Zephyr" SR                | 99.86% | 99.74% | 99.47% | 98.81% | 95.62% | 93.98% | 93.76% | 93.56% | 93.45% | 93.36%  |
| 5610   | Victory SR                | 99.92% | 99.62% | 99.39% | 98.26% | 89.20% | 73.08% | 68.62% | 67.65% | 67.35% | 67.13%  |
| 2525T  | Microny                   | 99.64% | 99.42% | 98.80% | 98.56% | 97.73% | 97.45% | 96.60% | 95.17% | 87.15% | 69.58%  |

| MODELS | FAMILY                    | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|--------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| PM1272 | AssurityMRI               | 99.93% | 99.83% | 99.50% | 99.05% | 98.44% | 97.98% |        |        |        |         |
| PM1160 | Endurity <sup>®</sup> SR  | 99.84% | 99.84% | 99.84% | 99.84% | 99.71% | 99.71% | 99.71% | 99.55% | 99.55% |         |
| PM1240 | Assurity <sup>®</sup> SR  | 99.98% | 99.96% | 99.93% | 99.83% | 99.59% | 99.21% | 98.79% | 98.53% | 98.47% |         |
| PM1110 | Accent <sup>®</sup> SR    | 99.96% | 99.94% | 99.92% | 99.92% | 99.92% | 99.92% | 99.92% | 99.92% | 99.92% | 99.92%  |
| PM1210 | Accent <sup>®</sup> SR RF | 99.93% | 99.87% | 99.83% | 99.81% | 99.76% | 99.74% | 99.73% | 99.70% | 99.70% | 99.70%  |
| 5626   | Zephyr" XL SR             | 99.95% | 99.93% | 99.93% | 99.87% | 99.83% | 99.83% | 99.80% | 99.80% | 99.74% | 99.71%  |
| 5620   | Zephyr" SR                | 99.97% | 99.94% | 99.92% | 99.85% | 99.83% | 99.80% | 99.77% | 99.65% | 99.57% | 99.52%  |
| 5610   | Victory <sup>®</sup> SR   | 99.98% | 99.96% | 99.91% | 99.82% | 98.96% | 98.80% | 98.67% | 98.17% | 97.97% | 97.86%  |
| 2525T  | Microny                   | 99.86% | 99.82% | 99.64% | 99.52% | 99.39% | 99.39% | 99.39% | 99.04% | 98.90% | 98.90%  |

US Malfunction Summary

### WITH COMPROMISED THERAPY

| MODELSFAMILYUS IMPLANTSANALYSISQTYRATEQTYR  | OTAL   | тс  | HER    | от  | LE EARLY<br>TERY<br>ETION | BAT | IANICAL | MECH | WARE/<br>WARE |     | TERY  | BAT | TRICAL<br>ONNECT |     | TRICAL<br>ONENT |     | PERCENT<br>RETURNED<br>FOR | REGISTERED  |                           |        |
|--|--------|-----|--------|-----|---------------------------|-----|---------|------|---------------|-----|-------|-----|------------------|-----|-----------------|-----|----------------------------|-------------|---------------------------|--------|
| PM1160         Endurity SR         2,571         6.20%         0         0.00%   | RATE   | QTY | RATE   | QTY | RATE                      | QTY | RATE    | QTY  | RATE          | QTY | RATE  | QTY | RATE             | QTY | RATE            | QTY | ANALYSIS                   | US IMPLANTS | FAMILY                    | MODELS |
| PM1240         Assurity SR         28,741         6.90%         0         0.00%         0         0.00%         3         0.01%         0         0.00%         3           PM110         Accent SR         13,595         8.00%         0         0.00% | <0.01% | 1   | 0.00%  | 0   | 0.00%                     | 0   | <0.01%  | 1    | 0.00%         | 0   | 0.00% | 0   | 0.00%            | 0   | 0.00%           | 0   | 4.40%                      | 38,701      | Assurity MRI              | PM1272 |
| PM110         Accent SR         13,595         8.00%         0         0.00%     | 0.00%  | 0   | 0.00%  | 0   | 0.00%                     | 0   | 0.00%   | 0    | 0.00%         | 0   | 0.00% | 0   | 0.00%            | 0   | 0.00%           | 0   | 6.20%                      | 2,571       | Endurity <sup>-</sup> SR  | PM1160 |
| PM1210         Accent <sup>2</sup> SR RF         40,045         790%         3         <0.01%         1         <0.01%         0         0.00%         0         0.00%         2         <0.01%         0         0.00%         6           5626         Zephyr <sup>2</sup> XL SR         20,881         11.60%         0         0.00%         1         <0.00%  | 0.01%  | 3   | 0.00%  | 0   | 0.00%                     | 0   | 0.01%   | 3    | 0.00%         | 0   | 0.00% | 0   | 0.00%            | 0   | 0.00%           | 0   | 6.90%                      | 28,741      | Assurity SR               | PM1240 |
| 5626       Zephyr XL SR       20,881       11.60%       0       0.00%       1       <0.00%       0       0.00%       0       0.00%       0       0.00%       1       <0.01%       2         5620       Zephyr SR       17,530       11.90%       0       0.00%       0       0.00%       0       0.00%       1       <0.01%  | 0.00%  | 0   | 0.00%  | 0   | 0.00%                     | 0   | 0.00%   | 0    | 0.00%         | 0   | 0.00% | 0   | 0.00%            | 0   | 0.00%           | 0   | 8.00%                      | 13,595      | Accent <sup>®</sup> SR    | PM1110 |
| 5620         Zephyr <sup>-</sup> SR         17,530         11.90%         0         0.00%         0         0.00%         0         0.00%         1         <0.01%         0         0.00%         1   | 0.01%  | 6   | 0.00%  | 0   | <0.01%                    | 2   | 0.00%   | 0    | 0.00%         | 0   | 0.00% | 0   | <0.01%           | 1   | <0.01%          | 3   | 7.90%                      | 40,045      | Accent SR RF              | PM1210 |
|  | <0.01% | 2   | <0.01% | 1   | 0.00%                     | 0   | 0.00%   | 0    | 0.00%         | 0   | 0.00% | 0   | <0.01%           | 1   | 0.00%           | 0   | 11.60%                     | 20,881      | Zephyr <sup>-</sup> XL SR | 5626   |
|  | <0.01% | 1   | 0.00%  | 0   | 0.00%                     | 0   | <0.01%  | 1    | 0.00%         | 0   | 0.00% | 0   | 0.00%            | 0   | 0.00%           | 0   | 11.90%                     | 17,530      | Zephyr <sup>-</sup> SR    | 5620   |
| 5610 Victory SR 13,690 15.70% 0 0.00% 0 0.00% 0 0.00% 0 0.00% 0 0.00% 1 <0.01% 1   | <0.01% | 1   | <0.01% | 1   | 0.00%                     | 0   | 0.00%   | 0    | 0.00%         | 0   | 0.00% | 0   | 0.00%            | 0   | 0.00%           | 0   | 15.70%                     | 13,690      | Victory SR                | 5610   |
| 2525T Microny <sup>-</sup> 7,394 7.40% 0 0.00% 0 0.00% 0 0.00% 0 0.00% 0 0.00% 0 0.00% 0 0.00% 0 0.00% 0 0.00% 0   | 0.00%  | 0   | 0.00%  | 0   | 0.00%                     | 0   | 0.00%   | 0    | 0.00%         | 0   | 0.00% | 0   | 0.00%            | 0   | 0.00%           | 0   | 7.40%                      | 7,394       | Microny                   | 2525T  |

### WITHOUT COMPROMISED THERAPY

|        |                           | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>PONENT |     | TRICAL<br>ONNECT | BAT | TERY   |     | WARE/<br>WARE | MECH | IANICAL | BAT | LE EARLY<br>TERY<br>ETION | от  | HER   | то  | TAL   |
|--------|---------------------------|-------------|----------------------------|-----|------------------|-----|------------------|-----|--------|-----|---------------|------|---------|-----|---------------------------|-----|-------|-----|-------|
| MODELS | FAMILY                    | US IMPLANTS | ANALYSIS                   | QTY | RATE             | QTY | RATE             | QTY | RATE   | QTY | RATE          | QTY  | RATE    | QTY | RATE                      | QTY | RATE  | QTY | RATE  |
| PM1272 | Assurity MRI <sup>-</sup> | 38,701      | 4.40%                      | 2   | <0.01%           | 0   | 0.00%            | 0   | 0.00%  | 4   | 0.01%         | 103  | 0.27%   | 0   | 0.00%                     | 0   | 0.00% | 109 | 0.28% |
| PM1160 | Endurity SR               | 2,571       | 6.20%                      | 0   | 0.00%            | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00%         | 3    | 0.12%   | 0   | 0.00%                     | 1   | 0.04% | 4   | 0.16% |
| PM1240 | Assurity SR               | 28,741      | 6.90%                      | 4   | 0.01%            | 0   | 0.00%            | 0   | 0.00%  | 3   | 0.01%         | 84   | 0.29%   | 1   | <0.01%                    | 0   | 0.00% | 92  | 0.32% |
| PM1110 | Accent <sup>-</sup> SR    | 13,595      | 8.00%                      | 2   | 0.01%            | 0   | 0.00%            | 0   | 0.00%  | 1   | <0.01%        | 0    | 0.00%   | 1   | <0.01%                    | 0   | 0.00% | 4   | 0.03% |
| PM1210 | Accent SR RF              | 40,045      | 7.90%                      | 11  | 0.03%            | 3   | <0.01%           | 1   | <0.01% | 1   | <0.01%        | 4    | <0.01%  | 3   | <0.01%                    | 8   | 0.02% | 31  | 0.08% |
| 5626   | Zephyr <sup>-</sup> XL SR | 20,881      | 11.60%                     | 4   | 0.02%            | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 0   | 0.00%                     | 13  | 0.06% | 17  | 0.08% |
| 5620   | Zephyr <sup>-</sup> SR    | 17,530      | 11.90%                     | 4   | 0.02%            | 0   | 0.00%            | 0   | 0.00%  | 2   | 0.01%         | 0    | 0.00%   | 0   | 0.00%                     | 11  | 0.06% | 17  | 0.10% |
| 5610   | Victory SR                | 13,690      | 15.70%                     | 25  | 0.18%            | 0   | 0.00%            | 0   | 0.00%  | 1   | <0.01%        | 0    | 0.00%   | 1   | <0.01%                    | 12  | 0.09% | 39  | 0.28% |
| 2525T  | Microny                   | 7,394       | 7.40%                      | 1   | 0.01%            | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00%         | 0    | 0.00%   | 1   | 0.01%                     | 0   | 0.00% | 2   | 0.03% |

Definitions of malfunction categories can be found on pages 5-6.

Worldwide Malfunction Summary

### WITH COMPROMISED THERAPY

|        |                          | WORLDWIDE | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>PONENT |     | TRICAL | BAT | TERY  |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>LETION | от  | HER   | тс  | DTAL   |
|--------|--------------------------|-----------|----------------------------|-----|------------------|-----|--------|-----|-------|-----|---------------|------|--------|-----|----------------------------|-----|-------|-----|--------|
| MODELS | FAMILY                   | SALES     | ANALYSIS                   | QTY | RATE             | QTY | RATE   | QTY | RATE  | QTY | RATE          | QTY  | RATE   | QTY | RATE                       | QTY | RATE  | QTY | RATE   |
| PM1272 | Assurity MRI             | 157,600   | 1.15%                      | 4   | <0.01%           | 0   | 0.00%  | 0   | 0.00% | 0   | 0.00%         | 2    | <0.01% | 2   | <0.01%                     | 0   | 0.00% | 8   | <0.01% |
| PM1160 | Endurity <sup>-</sup> SR | 28,197    | 0.83%                      | 2   | <0.01%           | 0   | 0.00%  | 0   | 0.00% | 0   | 0.00%         | 4    | 0.01%  | 0   | 0.00%                      | 0   | 0.00% | 6   | 0.02%  |
| PM1240 | Assurity SR              | 32,494    | 5.92%                      | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00% | 0   | 0.00%         | 6    | 0.02%  | 0   | 0.00%                      | 0   | 0.00% | 6   | 0.02%  |
| PM1110 | Accent <sup>®</sup> SR   | 59,281    | 2.16%                      | 0   | 0.00%            | 0   | 0.00%  | 0   | 0.00% | 0   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                      | 0   | 0.00% | 0   | 0.00%  |
| PM1210 | Accent SR RF             | 49,812    | 6.39%                      | 10  | 0.02%            | 2   | <0.01% | 0   | 0.00% | 0   | 0.00%         | 0    | 0.00%  | 4   | <0.01%                     | 0   | 0.00% | 16  | 0.03%  |

### WITHOUT COMPROMISED THERAPY

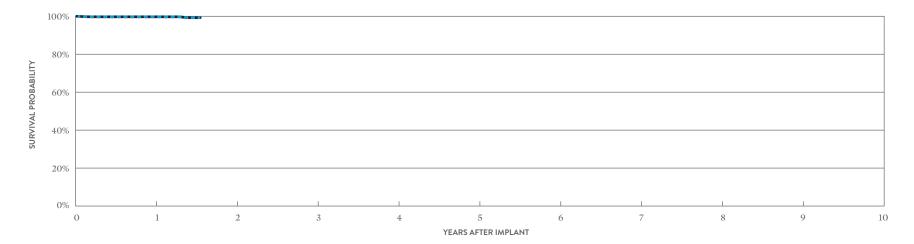
|        |                           | WORLDWIDE | PERCENT<br>RETURNED<br>FOR |     | TRICAL<br>PONENT | ELECT | IRICAL<br>ONNECT | BAT | TERY    |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>.ETION | от  | HER    | то  | DTAL  |
|--------|---------------------------|-----------|----------------------------|-----|------------------|-------|------------------|-----|---------|-----|---------------|------|--------|-----|----------------------------|-----|--------|-----|-------|
| MODELS | FAMILY                    | SALES     | ANALYSIS                   | QTY | RATE             | QTY   | RATE             | QTY | RATE    | QTY | RATE          | QTY  | RATE   | QTY | RATE                       | QTY | RATE   | QTY | RATE  |
| PM1272 | Assurity MRI <sup>-</sup> | 157,600   | 1.15%                      | 6   | <0.01%           | 0     | 0.00%            | 0   | 0.00%   | 8   | <0.01%        | 188  | 0.12%  | 0   | 0.00%                      | 2   | <0.01% | 204 | 0.13% |
| PM1160 | Endurity" SR              | 28,197    | 0.83%                      | 0   | 0.00%            | 0     | 0.00%            | 0   | 0.00%   | 0   | 0.00%         | 12   | 0.04%  | 0   | 0.00%                      | 2   | <0.01% | 14  | 0.05% |
| PM1240 | Assurity SR               | 32,494    | 5.92%                      | 10  | 0.03%            | 0     | 0.00%            | 0   | 0.00%   | 8   | 0.02%         | 162  | 0.50%  | 2   | <0.01%                     | 0   | 0.00%  | 182 | 0.56% |
| PM1110 | Accent <sup>-</sup> SR    | 59,281    | 2.16%                      | 10  | 0.02%            | 0     | 0.00%            | 0   | 0.00%   | 4   | <0.01%        | 0    | 0.00%  | 2   | <0.01%                     | 8   | 0.01%  | 24  | 0.04% |
| PM1210 | Accent SR RF              | 49,812    | 6.39%                      | 28  | 0.06%            | 8     | 0.02%            | 2   | < 0.01% | 2   | <0.01%        | 8    | 0.02%  | 6   | 0.01%                      | 20  | 0.04%  | 74  | 0.15% |

Definitions of malfunction categories can be found on pages 5-6.

### **AVEIR<sup>™</sup> VR** MODEL LSP112V

| US Regulatory Approval       | March 2022 |
|------------------------------|------------|
| Registered US Implants       | 5,990      |
| Estimated Active US Implants | 5,451      |
| Estimated Longevity          | 10.3 Years |
| Normal Battery Depletion     | 0          |
| Number of US Advisories      | None       |
|                              |            |

|                                  | W/ COMP | NCTIONS<br>PROMISED<br>RAPY | MALFUN<br>W/O COMP<br>THER | ROMISED |
|----------------------------------|---------|-----------------------------|----------------------------|---------|
|                                  | QTY     | RATE                        | QTY                        | RATE    |
| Electrical Component             | 0       | 0.00%                       | 0                          | 0.00%   |
| Electrical Interconnect          | 0       | 0.00%                       | 0                          | 0.00%   |
| Battery                          | 0       | 0.00%                       | 0                          | 0.00%   |
| Software/Firmware                | 0       | 0.00%                       | 2                          | 0.03%   |
| Mechanical                       | 0       | 0.00%                       | 0                          | 0.00%   |
| Possible Early Battery Depletion | 0       | 0.00%                       | 0                          | 0.00%   |
| Other                            | 0       | 0.00%                       | 0                          | 0.00%   |
| Extrinsic Factors                | 2       | 0.06%                       | 6                          | 0.10%   |
| Total                            | 2       | 0.06%                       | 8                          | 0.13%   |
|                                  |         |                             |                            |         |



### **INCLUDING NORMAL BATTERY DEPLETION**

| YEAR                 | 1      | AT 19 MONTHS |
|----------------------|--------|--------------|
| SURVIVAL PROBABILITY | 99.73% | 99.25%       |
| ±1 STANDARD ERROR    | 0.07%  | 0.35%        |
| SAMPLE SIZE          | 3,620  | 220          |

### EXCLUDING NORMAL BATTERY DEPLETION

| YEAR                 | 1      | AT 19 MONTHS |
|----------------------|--------|--------------|
| SURVIVAL PROBABILITY | 99.73% | 99.25%       |
| ±1 STANDARD ERROR    | 0.07%  | 0.35%        |

### \*VVIR 60 bpm, 2.5V @0.4 ms, 600Ω, 100% pacing.

## AVEIR<sup>™</sup> VR Performance

The Aveir VR leadless pacemaker exhibits characteristics which are similar to both implantable pulse generators and cardiac leads. Device malfunction criteria are reported according to standard pacemaker laboratory-confirmed processes. In addition, Abbott has assessed the events reported in the United States according to the relevant hierarchical criteria listed in ISO 5841-2 (E) for cardiac leads. The tables below provide an overview of the product performance from Aveir VR approval to December 31, 2023.

### DAY OF IMPLANT OBSERVATIONS (N = 5,990)

| REPORTED COMPLICATION | QTY | RATE  |
|-----------------------|-----|-------|
| Cardiac Perforation   | 30  | 0.50% |
| Dislodgement          | 36  | 0.60% |
| Failure to Capture    | 4   | 0.07% |
| Oversensing           | 1   | 0.02% |
| Failure to Sense      | 1   | 0.02% |
| Abnormal Impedance    | 4   | 0.07% |

### ACUTE OBSERVATIONS: OCCURRING WITHIN THE FIRST 30 DAYS POST-IMPLANT (N = 5,990)

| REPORTED COMPLICATION | QTY | RATE  |
|-----------------------|-----|-------|
| Cardiac Perforation   | 0   | 0%    |
| Dislodgement          | 14  | 0.23% |
| Failure to Capture    | 7   | 0.12% |
| Oversensing           | 0   | 0%    |
| Failure to Sense      | 1   | 0.02% |
| Abnormal Impedance    | 1   | 0.02% |

SUMMARY INFORMATION Single Chamber Leadless Pacemakers

Survival Probability Summary

### INCLUDING NORMAL BATTERY DEPLETION

| MODELS  | FAMILY    | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| LSP112V | AVEIR" VR | 99.73% |        |        |        |        |        |        |        |        |         |

| MODELS  | FAMILY    | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| LSP112V | AVEIR" VR | 99.73% |        |        |        |        |        |        |        |        |         |

US Malfunction Summary

### WITH COMPROMISED THERAPY

|         |                       |             | PERCENT  |      | POSSIBLE EARLY            |     |                            |     |           |     |          |     |            |     |           |           |       |     |         |     |       |
|---------|-----------------------|-------------|----------|------|---------------------------|-----|----------------------------|-----|-----------|-----|----------|-----|------------|-----|-----------|-----------|-------|-----|---------|-----|-------|
|         |                       |             | RETURNED |      | ELECTRICAL<br>COMPONENT I |     | ELECTRICAL<br>INTERCONNECT |     | SOFTWARE/ |     |          |     |            |     | TERY      | EXTRINSIC |       |     |         |     |       |
|         |                       | REGISTERED  | FOR      | COMP |                           |     |                            |     | BATTERY   |     | FIRMWARE |     | MECHANICAL |     | DEPLETION |           | OTHER |     | FACTORS |     | TAL   |
| MODELS  | FAMILY                | US IMPLANTS | ANALYSIS | QTY  | RATE                      | QTY | RATE                       | QTY | RATE      | QTY | RATE     | QTY | RATE       | QTY | RATE      | QTY       | RATE  | QTY | RATE    | QTY | RATE  |
| LSP112V | AVEIR <sup>®</sup> VR | 5,990       | 3.40%    | 0    | 0.00%                     | 0   | 0.00%                      | 0   | 0.00%     | 0   | 0.00%    | 0   | 0.00%      | 0   | 0.00%     | 0         | 0.00% | 2   | 0.03%   | 2   | 0.03% |

### WITHOUT COMPROMISED THERAPY

|         | REGISTERED |             | PERCENT<br>RETURNED<br>FOR | ELECTRICAL |       | ELECTRICAL<br>INTERCONNECT |       | BAT | TERY  | SOFTWARE/<br>FIRMWARE |       | MECH | ANICAL | BAT | POSSIBLE EARLY<br>BATTERY<br>DEPLETION |     | OTHER |     | EXTRINSIC<br>FACTORS |     | TOTAL |  |
|---------|------------|-------------|----------------------------|------------|-------|----------------------------|-------|-----|-------|-----------------------|-------|------|--------|-----|--|-----|-------|-----|----------------------|-----|-------|--|
| MODELS  | FAMILY     | US IMPLANTS | ANALYSIS                   | QTY        | RATE  | QTY                        | RATE  | QTY | RATE  | QTY                   | RATE  | QTY  | RATE   | QTY | RATE                                   | QTY | RATE  | QTY | RATE                 | QTY | RATE  |  |
| LSP112V | AVEIR" VR  | 5,990       | 3.40%                      | 0          | 0.00% | 0                          | 0.00% | 0   | 0.00% | 2                     | 0.03% | 0    | 0.00%  | 0   | 0.00%                                  | 0   | 0.00% | 6   | 0.10%                | 8   | 0.13% |  |

Definitions of malfunction categories can be found on pages 5-6.

Worldwide Malfunction Summary

### WITH COMPROMISED THERAPY

|         |          |                    | PERCENT         |     |                         |     |                            |     |                               |     |       |                                 |       |     | E EARLY |     |       | EXTRINSIC |       |     |       |
|---------|----------|--------------------|-----------------|-----|-------------------------|-----|----------------------------|-----|-------------------------------|-----|-------|---------------------------------|-------|-----|---------|-----|-------|-----------|-------|-----|-------|
|         |          |                    | RETURNED        |     | ELECTRICAL<br>COMPONENT |     | ELECTRICAL<br>INTERCONNECT |     | SOFTWARE/<br>BATTERY FIRMWARE |     | MECH  | BATTERY<br>MECHANICAL DEPLETION |       |     |         |     |       |           |       | TAL |       |
| MODELS  | FAMILY   | WORLDWIDE<br>SALES | FOR<br>ANALYSIS | QTY | RATE                    | QTY | RATE                       | QTY | RATE                          | QTY | RATE  | QTY                             | RATE  | QTY | RATE    | QTY | RATE  | QTY       | RATE  | QTY | RATE  |
| LSP112V | AVEIR VR | 10,059             | 2.73%           | 0   | 0.00%                   | 0   | 0.00%                      | 0   | 0.00%                         | 0   | 0.00% | 0                               | 0.00% | 0   | 0.00%   | 0   | 0.00% | 2         | 0.04% | 2   | 0.04% |

### WITHOUT COMPROMISED THERAPY

|         |           |                    | PERCENT         | ELECTRICAL<br>COMPONENT |       | ELECI<br>INTERC | RICAL | BAT | TERY  |     | WARE/<br>WARE | MECH | ANICAL | BAT | LE EARLY<br>TERY<br>ETION | от  | HER   |     | EXTRINSIC<br>FACTORS TOTAL |     |       |
|---------|-----------|--------------------|-----------------|-------------------------|-------|-----------------|-------|-----|-------|-----|---------------|------|--------|-----|---------------------------|-----|-------|-----|----------------------------|-----|-------|
| MODELS  | FAMILY    | WORLDWIDE<br>SALES | FOR<br>ANALYSIS | QTY                     | RATE  | QTY             | RATE  | QTY | RATE  | QTY | RATE          | QTY  | RATE   | QTY | RATE                      | QTY | RATE  | QTY | RATE                       | QTY | RATE  |
| LSP112V | AVEIR" VR | 10,059             | 2.73%           | 0                       | 0.00% | 0               | 0.00% | 0   | 0.00% | 5   | 0.00%         | 0    | 0.00%  | 0   | 0.00%                     | 1   | 0.00% | 8   | 0.07%                      | 14  | 0.07% |

Definitions of malfunction categories can be found on pages 5-6.

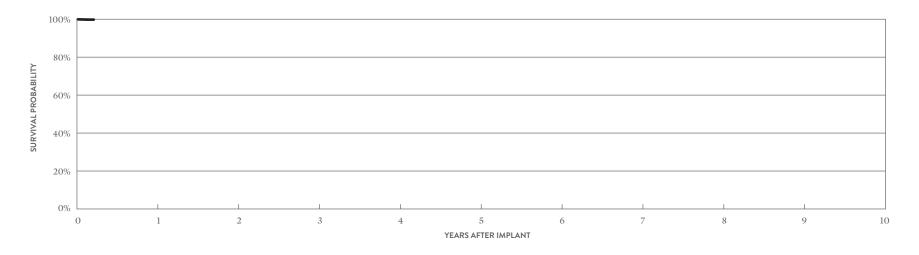
# Pacing Leads

## UltiPace<sup>™</sup> MODEL LPA1231

| US Regulatory Approval       | May 2023 |
|------------------------------|----------|
| Registered US Implants       | 1,199    |
| Estimated Active US Implants | 1,173    |
| Insulation                   | Optim"*  |
| Type and/or Fixation         | Active   |
| Polarity                     | Bipolar  |
| Steroid                      | Yes      |
| Number of US Advisories      | None     |
|                              |          |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | MPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|-----|----------------------|
|                             | QTY | RATE   | QTY | RATE                 |
| Cardiac Perforation         | 0   | 0.00%  | 0   | 0.00%                |
| Conductor Fracture          | 0   | 0.00%  | 0   | 0.00%                |
| Lead Dislodgement           | 1   | 0.08%  | 1   | 0.08%                |
| Failure to Capture          | 1   | 0.08%  | 0   | 0.00%                |
| Oversensing                 | 0   | 0.00%  | 0   | 0.00%                |
| Failure to Sense            | 0   | 0.00%  | 0   | 0.00%                |
| Insulation Breach           | 0   | 0.00%  | 0   | 0.00%                |
| Abnormal Pacing Impedance   | 0   | 0.00%  | 1   | 0.08%                |
| Extracardiac Stimulation    | 0   | 0.00%  | 0   | 0.00%                |
| Other                       | 1   | 0.08%  | 1   | 0.08%                |
| Total                       | 3   | 0.25%  | 3   | 0.25%                |
| Total Returned for Analysis | 0   |  | 0   |                      |

| MALFUNCTIONS          | QTY | RATE  |
|-----------------------|-----|-------|
| Conductor Fracture    | 0   | 0.00% |
| Insulation Breach     | 0   | 0.00% |
| Crimps, Welds & Bonds | 0   | 0.00% |
| Other                 | 0   | 0.00% |
| Extrinsic Factors     | 0   | 0.00% |
| Total                 | 0   | 0.00% |



| YEAR                 | AT 3 MONTHS |
|----------------------|-------------|
| SURVIVAL PROBABILITY | 99.79%      |
| ±1 STANDARD ERROR    | 0.21%       |
| SAMPLE SIZE          | 300         |

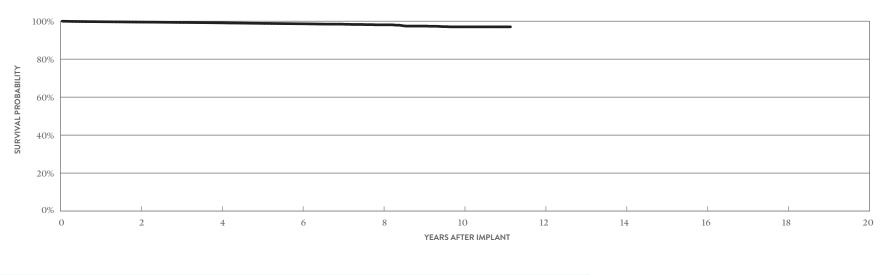
\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

### Tendril MRI<sup>™</sup> MODEL LPA1200M

| US Regulatory Approval       | January 2017 |
|------------------------------|--------------|
| Registered US Implants       | 199,280      |
| Estimated Active US Implants | 113,262      |
| Insulation                   | Optim"*      |
| Type and/or Fixation         | Active       |
| Polarity                     | Bipolar      |
| Steroid                      | Yes          |
| Number of US Advisories      | None         |
|                              |              |

|                             | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        |      | MPLICATIONS<br>DAYS) |
|-----------------------------|--|--------|------|----------------------|
|                             | QTY  | RATE   | QTY  | RATE                 |
| Cardiac Perforation         | 59   | 0.03%  | 22   | 0.01%                |
| Conductor Fracture          | 3  | <0.01% | 112  | 0.06%                |
| Lead Dislodgement           | 418  | 0.21%  | 541  | 0.27%                |
| Failure to Capture          | 68   | 0.03%  | 364  | 0.18%                |
| Oversensing                 | 20   | 0.01%  | 753  | 0.38%                |
| Failure to Sense            | 27   | 0.01%  | 57   | 0.03%                |
| Insulation Breach           | 2  | <0.01% | 38   | 0.02%                |
| Abnormal Pacing Impedance   | 2  | <0.01% | 89   | 0.04%                |
| Extracardiac Stimulation    | 8  | <0.01% | 12   | <0.01%               |
| Other                       | 62   | 0.03%  | 50   | 0.03%                |
| Total                       | 669  | 0.34%  | 2038 | 1.02%                |
| Total Returned for Analysis | Returned for Analysis 246                      |        | 538  |                      |

| MALFUNCTIONS          | QTY | RATE   |
|-----------------------|-----|--------|
| Conductor Fracture    | 67  | 0.03%  |
| Insulation Breach     | 127 | 0.06%  |
| Crimps, Welds & Bonds | 0   | 0.00%  |
| Other                 | 7   | <0.01% |
| Extrinsic Factors     | 338 | 0.17%  |
| Total                 | 539 | 0.27%  |



| YEAR                 | 2       | 4       | 6      | 8      | 10     | AT 134 MONTHS |
|----------------------|---------|---------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.53%  | 99.13%  | 98.64% | 98.10% | 97.03% | 97.03%        |
| ±1 STANDARD ERROR    | 0.02%   | 0.02%   | 0.04%  | 0.18%  | 0.37%  | 0.37%         |
| SAMPLE SIZE          | 154,330 | 110,930 | 57,270 | 1,110  | 960    | 230           |

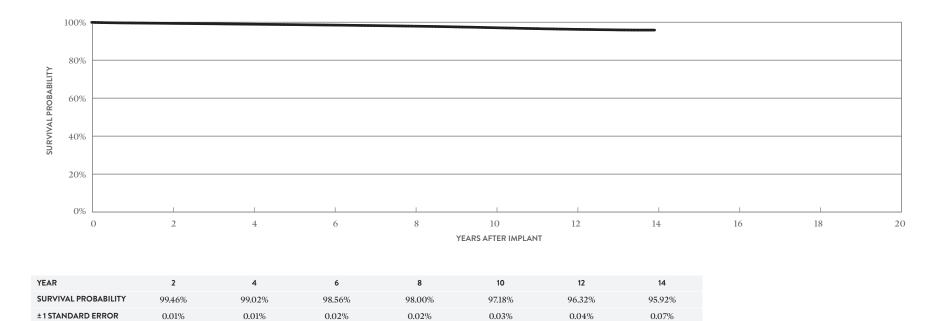
\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

## Tendril<sup>™</sup> STS MODEL 2088TC

| US Regulatory Approval       | May 2009  |
|------------------------------|-----------|
| Registered US Implants       | 1,210,377 |
| Estimated Active US Implants | 609,219   |
| Insulation                   | Optim"*   |
| Type and/or Fixation         | Active    |
| Polarity                     | Bipolar   |
| Steroid                      | Yes       |
| Number of US Advisories      | None      |
|                              |           |

|                             | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        |       | MPLICATIONS<br>DAYS) |
|-----------------------------|--|--------|-------|----------------------|
|                             | QTY  | RATE   | QTY   | RATE                 |
| Cardiac Perforation         | 299  | 0.02%  | 162   | 0.01%                |
| Conductor Fracture          | 11   | <0.01% | 555   | 0.05%                |
| Lead Dislodgement           | 1764   | 0.15%  | 2895  | 0.24%                |
| Failure to Capture          | 540  | 0.04%  | 2537  | 0.21%                |
| Oversensing                 | 138  | 0.01%  | 8136  | 0.67%                |
| Failure to Sense            | 70   | <0.01% | 334   | 0.03%                |
| Insulation Breach           | 27   | <0.01% | 554   | 0.05%                |
| Abnormal Pacing Impedance   | 67   | <0.01% | 581   | 0.05%                |
| Extracardiac Stimulation    | 18   | <0.01% | 107   | <0.01%               |
| Other                       | 235  | 0.02%  | 442   | 0.04%                |
| Total                       | 3169   | 0.26%  | 16303 | 1.35%                |
| Total Returned for Analysis | 1080   |        | 4069  |                      |

| MALFUNCTIONS          | QTY  | RATE   |
|-----------------------|------|--------|
| Conductor Fracture    | 132  | 0.01%  |
| Insulation Breach     | 1654 | 0.14%  |
| Crimps, Welds & Bonds | 0    | 0.00%  |
| Other                 | 35   | <0.01% |
| Extrinsic Factors     | 2681 | 0.22%  |
| Total                 | 4502 | 0.37%  |



148,630

61,400

210

\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

854,830

575,350

388,250

266,300

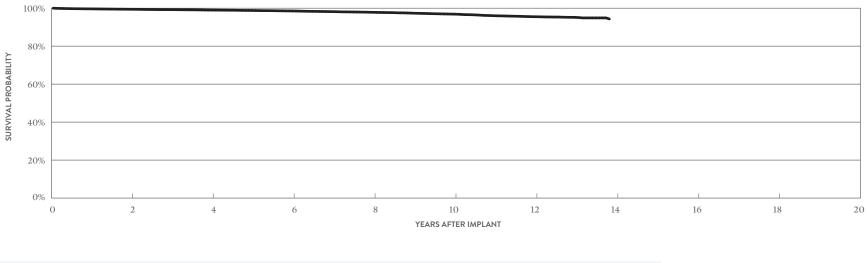
SAMPLE SIZE

## OptiSense<sup>™</sup> MODEL 1999

| US Regulatory Approval       | May 2007 |
|------------------------------|----------|
| Registered US Implants       | 48,429   |
| Estimated Active US Implants | 18,958   |
| Insulation                   | Optim"*  |
| Type and/or Fixation         | Active   |
| Polarity                     | Bipolar  |
| Steroid                      | Yes      |
| Number of US Advisories      | None     |
|                              |          |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |      | OMPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|------|-----------------------|
|                             | QTY | RATE   | QTY  | RATE                  |
| Cardiac Perforation         | 5   | 0.01%  | 2    | <0.01%                |
| Conductor Fracture          | 0   | 0.00%  | 23   | 0.05%                 |
| Lead Dislodgement           | 64  | 0.13%  | 198  | 0.41%                 |
| Failure to Capture          | 8   | 0.02%  | 128  | 0.26%                 |
| Oversensing                 | 10  | 0.02%  | 652  | 1.35%                 |
| Failure to Sense            | 3   | <0.01%   | 56   | 0.12%                 |
| Insulation Breach           | 1   | <0.01%   | 61   | 0.13%                 |
| Abnormal Pacing Impedance   | 0   | 0.00%  | 25   | 0.05%                 |
| Extracardiac Stimulation    | 0   | 0.00%  | 2    | < 0.01%               |
| Other                       | 14  | 0.03%  | 31   | 0.06%                 |
| Total                       | 105 | 0.22%  | 1178 | 2.43%                 |
| Total Returned for Analysis | 59  |  | 291  |                       |

| MALFUNCTIONS          | QTY | RATE  |
|-----------------------|-----|-------|
| Conductor Fracture    | 8   | 0.02% |
| Insulation Breach     | 119 | 0.25% |
| Crimps, Welds & Bonds | 0   | 0.00% |
| Other                 | 7   | 0.01% |
| Extrinsic Factors     | 202 | 0.42% |
| Total                 | 336 | 0.69% |



| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | AT 166 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.43% | 99.00% | 98.54% | 97.84% | 96.87% | 95.51% | 94.33%        |
| ±1 STANDARD ERROR    | 0.04%  | 0.05%  | 0.06%  | 0.08%  | 0.11%  | 0.16%  | 0.23%         |
| SAMPLE SIZE          | 41,160 | 34,590 | 29,110 | 22,910 | 14,400 | 6,780  | 230           |

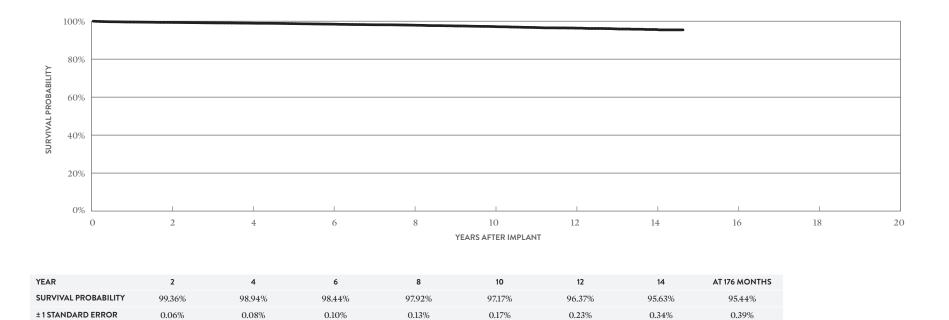
\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

### IsoFlex<sup>™</sup> Optim<sup>™</sup> MODEL 1944

| US Regulatory Approval       | March 2008 |
|------------------------------|------------|
| Registered US Implants       | 21,422     |
| Estimated Active US Implants | 8,492      |
| Insulation                   | Optim"*    |
| Type and/or Fixation         | Passive    |
| Polarity                     | Bipolar    |
| Steroid                      | Yes        |
| Number of US Advisories      | None       |
|                              |            |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | DMPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|-----|-----------------------|
|                             | QTY | RATE   | QTY | RATE                  |
| Cardiac Perforation         | 0   | 0.00%  | 1   | <0.01%                |
| Conductor Fracture          | 0   | 0.00%  | 12  | 0.06%                 |
| Lead Dislodgement           | 124 | 0.58%  | 84  | 0.39%                 |
| Failure to Capture          | 18  | 0.08%  | 73  | 0.34%                 |
| Oversensing                 | 1   | <0.01%   | 197 | 0.92%                 |
| Failure to Sense            | 3   | 0.01%  | 11  | 0.05%                 |
| Insulation Breach           | 0   | 0.00%  | 9   | 0.04%                 |
| Abnormal Pacing Impedance   | 0   | 0.00%  | 9   | 0.04%                 |
| Extracardiac Stimulation    | 3   | 0.01%  | 1   | <0.01%                |
| Other                       | 4   | 0.02%  | 6   | 0.03%                 |
| Total                       | 153 | 0.71%  | 403 | 1.88%                 |
| Total Returned for Analysis | 73  |  | 66  |                       |

| MALFUNCTIONS          | QTY | RATE   |
|-----------------------|-----|--------|
| Conductor Fracture    | 0   | 0.00%  |
| Insulation Breach     | 23  | 0.11%  |
| Crimps, Welds & Bonds | 0   | 0.00%  |
| Other                 | 1   | <0.01% |
| Extrinsic Factors     | 51  | 0.24%  |
| Total                 | 75  | 0.35%  |



5,020

2,650

870

220

\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

16,590

12,940

9,980

7,500

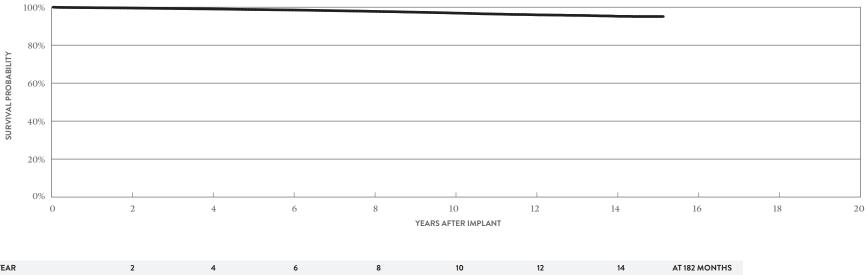
SAMPLE SIZE

## IsoFlex<sup>™</sup> Optim<sup>™</sup> MODEL 1948

| US Regulatory Approval       | March 2008 |
|------------------------------|------------|
| Registered US Implants       | 79,507     |
| Estimated Active US Implants | 31,359     |
| Insulation                   | Optim"*    |
| Type and/or Fixation         | Passive    |
| Polarity                     | Bipolar    |
| Steroid                      | Yes        |
| Number of US Advisories      | None       |
|                              |            |

|                             | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        | CHRONIC COMPLICATION<br>(>30 DAYS) |        |
|-----------------------------|--|--------|------------------------------------|--------|
|                             | QTY  | RATE   | QTY                                | RATE   |
| Cardiac Perforation         | 6  | <0.01% | 13                                 | 0.02%  |
| Conductor Fracture          | 1  | <0.01% | 131                                | 0.16%  |
| Lead Dislodgement           | 86   | 0.11%  | 98                                 | 0.12%  |
| Failure to Capture          | 56   | 0.07%  | 321                                | 0.40%  |
| Oversensing                 | 4  | <0.01% | 597                                | 0.75%  |
| Failure to Sense            | 2  | <0.01% | 7                                  | <0.01% |
| Insulation Breach           | 4  | <0.01% | 127                                | 0.16%  |
| Abnormal Pacing Impedance   | 1  | <0.01% | 61                                 | 0.08%  |
| Extracardiac Stimulation    | 2  | <0.01% | 9                                  | 0.01%  |
| Other                       | 9  | 0.01%  | 36                                 | 0.05%  |
| Total                       | 171  | 0.22%  | 1400                               | 1.76%  |
| Total Returned for Analysis | 74   |        | 213                                |        |

| MALFUNCTIONS          | QTY | RATE   |
|-----------------------|-----|--------|
| Conductor Fracture    | 23  | 0.03%  |
| Insulation Breach     | 178 | 0.22%  |
| Crimps, Welds & Bonds | 0   | 0.00%  |
| Other                 | 4   | <0.01% |
| Extrinsic Factors     | 119 | 0.15%  |
| Total                 | 324 | 0.41%  |



| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | AT 182 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.56% | 99.08% | 98.53% | 97.80% | 96.89% | 96.00% | 95.23% | 95.10%        |
| ±1 STANDARD ERROR    | 0.02%  | 0.04%  | 0.05%  | 0.07%  | 0.10%  | 0.13%  | 0.18%  | 0.22%         |
| SAMPLE SIZE          | 62,250 | 48,720 | 38,030 | 28,270 | 18,310 | 9,240  | 3,100  | 260           |

\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

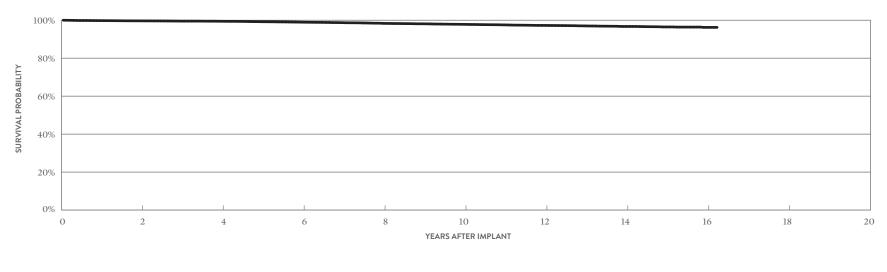
# Pacing Leads

### OptiSense<sup>™</sup> MODELS 1699T & 1699TC

| US Regulatory Approval       | May 2007 |
|------------------------------|----------|
| Registered US Implants       | 23,977   |
| Estimated Active US Implants | 6,304    |
| Insulation                   | Silicone |
| Type and/or Fixation         | Active   |
| Polarity                     | Bipolar  |
| Steroid                      | Yes      |
| Number of US Advisories      | None     |
|                              |          |

|                             | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        | CHRONIC COMPLICATIO<br>(>30 DAYS) |       |
|-----------------------------|--|--------|-----------------------------------|-------|
|                             | QTY  | RATE   | QTY                               | RATE  |
| Cardiac Perforation         | 1  | <0.01% | 0                                 | 0.00% |
| Conductor Fracture          | 0  | 0.00%  | 20                                | 0.08% |
| Lead Dislodgement           | 4  | 0.02%  | 57                                | 0.24% |
| Failure to Capture          | 4  | 0.02%  | 65                                | 0.27% |
| Oversensing                 | 3  | 0.01%  | 174                               | 0.73% |
| Failure to Sense            | 8  | 0.03%  | 34                                | 0.14% |
| Insulation Breach           | 0  | 0.00%  | 11                                | 0.05% |
| Abnormal Pacing Impedance   | 0  | 0.00%  | 30                                | 0.13% |
| Extracardiac Stimulation    | 0  | 0.00%  | 3                                 | 0.01% |
| Other                       | 2  | <0.01% | 11                                | 0.05% |
| Total                       | 22   | 0.09%  | 405                               | 1.69% |
| Total Returned for Analysis | 16   |        | 92                                |       |

| MALFUNCTIONS          | QTY | RATE  |
|-----------------------|-----|-------|
| Conductor Fracture    | 14  | 0.06% |
| Insulation Breach     | 56  | 0.23% |
| Crimps, Welds & Bonds | 0   | 0.00% |
| Other                 | 0   | 0.00% |
| Extrinsic Factors     | 67  | 0.28% |
| Total                 | 137 | 0.57% |



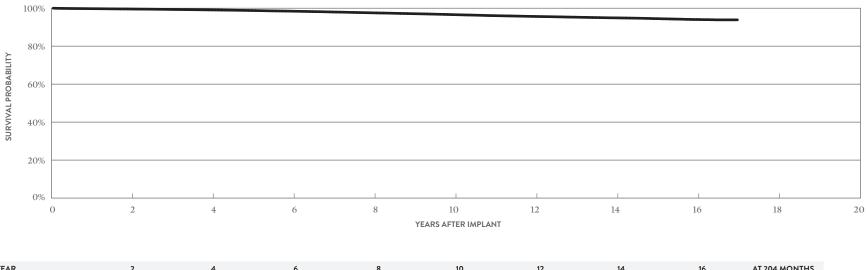
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 195 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.65% | 99.43% | 98.94% | 98.33% | 97.82% | 97.25% | 96.70% | 96.22% | 96.22%        |
| ±1 STANDARD ERROR    | 0.04%  | 0.05%  | 0.08%  | 0.11%  | 0.13%  | 0.15%  | 0.17%  | 0.25%  | 0.25%         |
| SAMPLE SIZE          | 19,490 | 15,720 | 13,020 | 10,950 | 9,500  | 8,270  | 6,360  | 1,620  | 250           |

## Tendril<sup>™</sup> ST Optim<sup>™</sup> MODELS 1888T & 1888TC

| US Regulatory Approval       | June 2006 |
|------------------------------|-----------|
| Registered US Implants       | 315,900   |
| Estimated Active US Implants | 91,656    |
| Insulation                   | Optim"*   |
| Type and/or Fixation         | Active    |
| Polarity                     | Bipolar   |
| Steroid                      | Yes       |
| Number of US Advisories      | None      |
|                              |           |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |      | MPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|------|----------------------|
|                             | QTY | RATE   | QTY  | RATE                 |
| Cardiac Perforation         | 41  | 0.01%  | 46   | 0.01%                |
| Conductor Fracture          | 8   | <0.01%   | 365  | 0.12%                |
| Lead Dislodgement           | 158 | 0.05%  | 640  | 0.20%                |
| Failure to Capture          | 88  | 0.03%  | 1248 | 0.40%                |
| Oversensing                 | 22  | <0.01%   | 4284 | 1.36%                |
| Failure to Sense            | 14  | <0.01%   | 162  | 0.05%                |
| Insulation Breach           | 7   | <0.01%   | 544  | 0.17%                |
| Abnormal Pacing Impedance   | 10  | <0.01%   | 327  | 0.10%                |
| Extracardiac Stimulation    | 5   | <0.01%   | 49   | 0.02%                |
| Other                       | 42  | 0.01%  | 208  | 0.07%                |
| Total                       | 395 | 0.13%  | 7873 | 2.49%                |
| Total Returned for Analysis | 207 |  | 1735 |                      |

| MALFUNCTIONS          | QTY  | RATE   |
|-----------------------|------|--------|
| Conductor Fracture    | 56   | 0.02%  |
| Insulation Breach     | 1317 | 0.42%  |
| Crimps, Welds & Bonds | 1    | <0.01% |
| Other                 | 18   | <0.01% |
| Extrinsic Factors     | 1006 | 0.32%  |
| Total                 | 2398 | 0.76%  |



| YEAR                 | 2       | 4       | 6       | 8       | 10      | 12     | 14     | 16     | AT 204 MONTHS |
|----------------------|---------|---------|---------|---------|---------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.57%  | 99.09%  | 98.42%  | 97.54%  | 96.59%  | 95.65% | 94.91% | 94.04% | 93.87%        |
| ± 1 STANDARD ERROR   | 0.01%   | 0.02%   | 0.03%   | 0.04%   | 0.04%   | 0.05%  | 0.06%  | 0.10%  | 0.12%         |
| SAMPLE SIZE          | 256,110 | 207,530 | 171,510 | 144,030 | 115,740 | 85,270 | 51,810 | 13,110 | 230           |

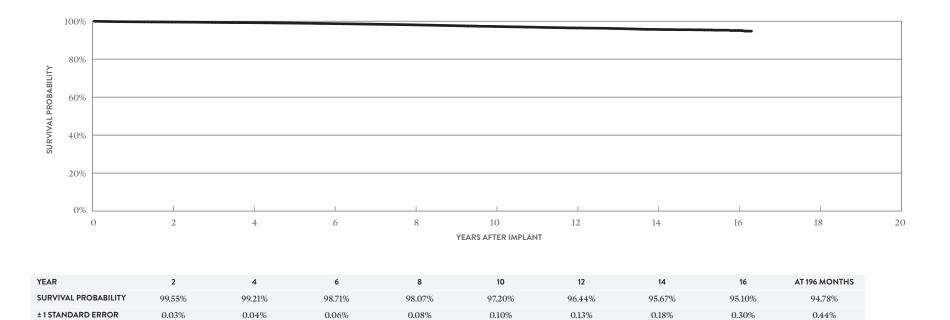
\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

## Tendril<sup>™</sup> ST Optim<sup>™</sup> MODELS 1882T & 1882TC

| US Regulatory Approval       | June 2006 |
|------------------------------|-----------|
| Registered US Implants       | 50,312    |
| Estimated Active US Implants | 17,565    |
| Insulation                   | Optim"*   |
| Type and/or Fixation         | Active    |
| Polarity                     | Bipolar   |
| Steroid                      | Yes       |
| Number of US Advisories      | None      |
|                              |           |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |      | DMPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|------|-----------------------|
|                             | QTY | RATE   | QTY  | RATE                  |
| Cardiac Perforation         | 4   | <0.01%   | 4    | <0.01%                |
| Conductor Fracture          | 0   | 0.00%  | 27   | 0.05%                 |
| Lead Dislodgement           | 49  | 0.10%  | 172  | 0.34%                 |
| Failure to Capture          | 12  | 0.02%  | 148  | 0.29%                 |
| Oversensing                 | 6   | 0.01%  | 503  | 1.00%                 |
| Failure to Sense            | 4   | <0.01%   | 33   | 0.07%                 |
| Insulation Breach           | 0   | 0.00%  | 63   | 0.13%                 |
| Abnormal Pacing Impedance   | 1   | <0.01%   | 36   | 0.07%                 |
| Extracardiac Stimulation    | 0   | 0.00%  | 4    | <0.01%                |
| Other                       | 15  | 0.03%  | 34   | 0.07%                 |
| Total                       | 91  | 0.18%  | 1024 | 2.04%                 |
| Total Returned for Analysis | 49  |  | 220  |                       |

| MALFUNCTIONS          | QTY | RATE   |
|-----------------------|-----|--------|
| Conductor Fracture    | 2   | <0.01% |
| Insulation Breach     | 122 | 0.24%  |
| Crimps, Welds & Bonds | 0   | 0.00%  |
| Other                 | 3   | <0.01% |
| Extrinsic Factors     | 154 | 0.31%  |
| Total                 | 281 | 0.56%  |



15,670

9,190

4,080

870

220

\*Optim<sup>™</sup> lead insulation is a copolymer of silicone and polyurethane.

41,870

34,660

28,830

22,630

SAMPLE SIZE

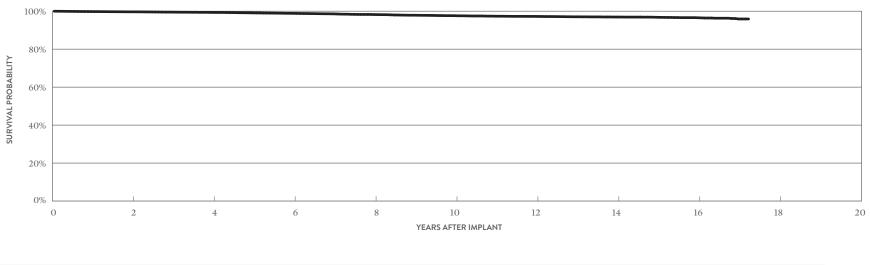
# Pacing Leads

## Tendril™ MODELS 1782T & 1782TC

| US Regulatory Approval    | February 2006 |
|---------------------------|---------------|
| Registered US Implants    | 16,576        |
| Estimated Active US Impla | ants 4,036    |
| Insulation                | Silicone      |
| Type and/or Fixation      | Active        |
| Polarity                  | Bipolar       |
| Steroid                   | Yes           |
| Number of US Advisories   | None          |
|                           |               |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | DAYS)  |
|-----------------------------|-----|--|-----|--------|
|                             | QTY | RATE   | QTY | RATE   |
| Cardiac Perforation         | 6   | 0.04%  | 0   | 0.00%  |
| Conductor Fracture          | 0   | 0.00%  | 6   | 0.04%  |
| Lead Dislodgement           | 13  | 0.08%  | 54  | 0.33%  |
| Failure to Capture          | 5   | 0.03%  | 61  | 0.37%  |
| Oversensing                 | 0   | 0.00%  | 85  | 0.51%  |
| Failure to Sense            | 0   | 0.00%  | 10  | 0.06%  |
| Insulation Breach           | 0   | 0.00%  | 7   | 0.04%  |
| Abnormal Pacing Impedance   | 2   | 0.01%  | 21  | 0.13%  |
| Extracardiac Stimulation    | 1   | <0.01%   | 1   | <0.01% |
| Other                       | 2   | 0.01%  | 6   | 0.04%  |
| Total                       | 29  | 0.17%  | 251 | 1.51%  |
| Total Returned for Analysis | 16  |  | 73  |        |

| MALFUNCTIONS          | QTY | RATE   |
|-----------------------|-----|--------|
| Conductor Fracture    | 1   | <0.01% |
| Insulation Breach     | 52  | 0.31%  |
| Crimps, Welds & Bonds | 0   | 0.00%  |
| Other                 | 0   | 0.00%  |
| Extrinsic Factors     | 51  | 0.31%  |
| Total                 | 104 | 0.63%  |



| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 207 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.67% | 99.36% | 98.86% | 98.23% | 97.63% | 97.25% | 96.93% | 96.55% | 95.91%        |
| ± 1 STANDARD ERROR   | 0.05%  | 0.07%  | 0.10%  | 0.14%  | 0.17%  | 0.19%  | 0.20%  | 0.23%  | 0.40%         |
| SAMPLE SIZE          | 13,380 | 10,630 | 8,440  | 6,910  | 5,930  | 5,100  | 3,760  | 1,950  | 230           |

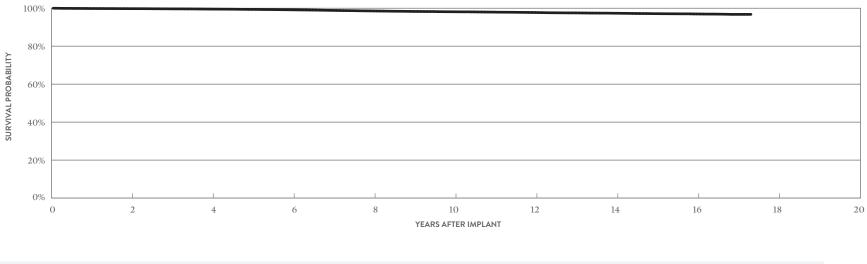
# Pacing Leads

## Tendril™ MODELS 1788T & 1788TC

| US Regulatory Approval       | February 2006 |
|------------------------------|---------------|
| Registered US Implants       | 65,626        |
| Estimated Active US Implants | 15,782        |
| Insulation                   | Silicone      |
| Type and/or Fixation         | Active        |
| Polarity                     | Bipolar       |
| Steroid                      | Yes           |
| Number of US Advisories      | None          |
|                              |               |

|                             | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |        | CHRONIC COMPLICATION<br>(>30 DAYS) |       |
|-----------------------------|--|--------|------------------------------------|-------|
|                             | QTY  | RATE   | QTY                                | RATE  |
| Cardiac Perforation         | 12   | 0.02%  | 8                                  | 0.01% |
| Conductor Fracture          | 1  | <0.01% | 40                                 | 0.06% |
| Lead Dislodgement           | 31   | 0.05%  | 80                                 | 0.12% |
| Failure to Capture          | 31   | 0.05%  | 215                                | 0.33% |
| Oversensing                 | 4  | <0.01% | 313                                | 0.48% |
| Failure to Sense            | 2  | <0.01% | 27                                 | 0.04% |
| Insulation Breach           | 1  | <0.01% | 37                                 | 0.06% |
| Abnormal Pacing Impedance   | 9  | 0.01%  | 59                                 | 0.09% |
| Extracardiac Stimulation    | 2  | <0.01% | 9                                  | 0.01% |
| Other                       | 20   | 0.03%  | 37                                 | 0.06% |
| Total                       | 113  | 0.17%  | 825                                | 1.26% |
| Total Returned for Analysis | 49   |        | 180                                |       |

| MALFUNCTIONS          | QTY | RATE   |
|-----------------------|-----|--------|
| Conductor Fracture    | 10  | 0.02%  |
| Insulation Breach     | 152 | 0.23%  |
| Crimps, Welds & Bonds | 1   | <0.01% |
| Other                 | 1   | <0.01% |
| Extrinsic Factors     | 111 | 0.17%  |
| Total                 | 275 | 0.42%  |



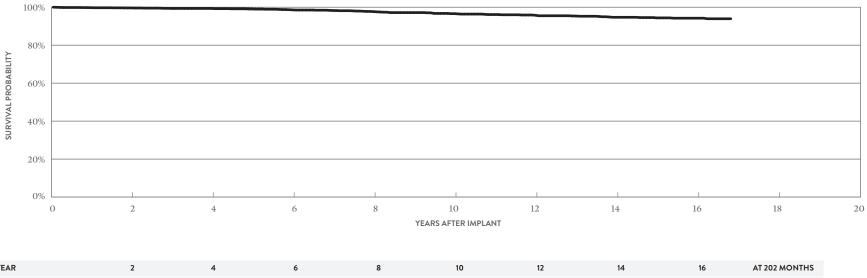
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 208 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.75% | 99.53% | 99.14% | 98.55% | 98.12% | 97.73% | 97.34% | 96.96% | 96.75%        |
| ± 1 STANDARD ERROR   | 0.02%  | 0.03%  | 0.04%  | 0.06%  | 0.08%  | 0.09%  | 0.10%  | 0.11%  | 0.13%         |
| SAMPLE SIZE          | 52,400 | 40,940 | 32,890 | 27,130 | 23,450 | 20,840 | 17,490 | 10,780 | 280           |

## IsoFlex<sup>™</sup> P MODEL 1648T

| US Regulatory Approval       | April 2005   |
|------------------------------|--------------|
| Registered US Implants       | 2,836        |
| Estimated Active US Implants | 614          |
| Insulation                   | Polyurethane |
| Type and/or Fixation         | Passive      |
| Polarity                     | Bipolar      |
| Steroid                      | Yes          |
| Number of US Advisories      | None         |
|                              |              |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |     | MPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|-----|----------------------|
|                             | QTY | RATE   | QTY | RATE                 |
| Cardiac Perforation         | 0   | 0.00%  | 0   | 0.00%                |
| Conductor Fracture          | 0   | 0.00%  | 7   | 0.25%                |
| Lead Dislodgement           | 2   | 0.07%  | 2   | 0.07%                |
| Failure to Capture          | 2   | 0.07%  | 17  | 0.60%                |
| Oversensing                 | 0   | 0.00%  | 3   | 0.11%                |
| Failure to Sense            | 1   | 0.04%  | 1   | 0.04%                |
| Insulation Breach           | 0   | 0.00%  | 15  | 0.53%                |
| Abnormal Pacing Impedance   | 0   | 0.00%  | 4   | 0.14%                |
| Extracardiac Stimulation    | 1   | 0.04%  | 0   | 0.00%                |
| Other                       | 0   | 0.00%  | 6   | 0.21%                |
| Total                       | 6   | 0.21%  | 55  | 1.94%                |
| Total Returned for Analysis | 1   |  | 8   |                      |

| MALFUNCTIONS          | QTY | RATE  |
|-----------------------|-----|-------|
| Conductor Fracture    | 0   | 0.00% |
| Insulation Breach     | 20  | 0.71% |
| Crimps, Welds & Bonds | 0   | 0.00% |
| Other                 | 2   | 0.07% |
| Extrinsic Factors     | 6   | 0.21% |
| Total                 | 28  | 0.99% |



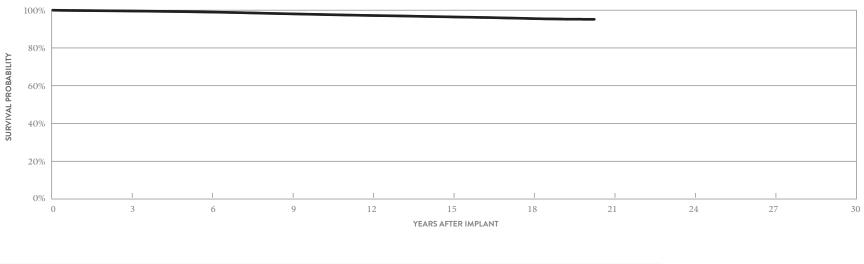
| YEAR                 | 2      | 4      | 6      | 8      | 10     | 12     | 14     | 16     | AT 202 MONTHS |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.62% | 99.35% | 98.60% | 97.67% | 96.60% | 95.76% | 94.69% | 94.21% | 93.92%        |
| ± 1 STANDARD ERROR   | 0.13%  | 0.18%  | 0.28%  | 0.40%  | 0.53%  | 0.60%  | 0.71%  | 0.76%  | 0.81%         |
| SAMPLE SIZE          | 2,120  | 1,640  | 1,260  | 1,030  | 870    | 770    | 690    | 500    | 200           |

## Tendril<sup>™</sup> SDX MODELS 1688T & 1688TC

| US Regulatory Approval       | June 2003 |
|------------------------------|-----------|
| Registered US Implants       | 494,454   |
| Estimated Active US Implants | 121,850   |
| Insulation                   | Silicone  |
| Type and/or Fixation         | Active    |
| Polarity                     | Bipolar   |
| Steroid                      | Yes       |
| Number of US Advisories      | None      |
|                              |           |

|                             |     | ACUTE OBSERVATIONS<br>(POST IMPLANT, ≤30 DAYS) |      | MPLICATIONS<br>DAYS) |
|-----------------------------|-----|--|------|----------------------|
|                             | QTY | RATE   | QTY  | RATE                 |
| Cardiac Perforation         | 81  | 0.02%  | 46   | <0.01%               |
| Conductor Fracture          | 6   | <0.01%   | 658  | 0.13%                |
| Lead Dislodgement           | 322 | 0.07%  | 659  | 0.13%                |
| Failure to Capture          | 203 | 0.04%  | 2050 | 0.41%                |
| Oversensing                 | 24  | <0.01%   | 2642 | 0.53%                |
| Failure to Sense            | 34  | <0.01%   | 197  | 0.04%                |
| Insulation Breach           | 10  | <0.01%   | 276  | 0.06%                |
| Abnormal Pacing Impedance   | 30  | <0.01%   | 735  | 0.15%                |
| Extracardiac Stimulation    | 8   | <0.01%   | 54   | 0.01%                |
| Other                       | 68  | 0.01%  | 246  | 0.05%                |
| Total                       | 786 | 0.16%  | 7563 | 1.53%                |
| Total Returned for Analysis | 353 |  | 1738 |                      |

| MALFUNCTIONS          | QTY  | RATE   |
|-----------------------|------|--------|
| Conductor Fracture    | 227  | 0.05%  |
| Insulation Breach     | 1245 | 0.25%  |
| Crimps, Welds & Bonds | 2    | <0.01% |
| Other                 | 21   | <0.01% |
| Extrinsic Factors     | 901  | 0.18%  |
| Total                 | 2396 | 0.48%  |



| YEAR                 | 3       | 6       | 9       | 12      | 15     | 18     | AT 244 MONTHS |
|----------------------|---------|---------|---------|---------|--------|--------|---------------|
| SURVIVAL PROBABILITY | 99.55%  | 98.98%  | 98.06%  | 97.18%  | 96.43% | 95.54% | 95.16%        |
| ±1 STANDARD ERROR    | 0.01%   | 0.02%   | 0.03%   | 0.04%   | 0.05%  | 0.07%  | 0.11%         |
| SAMPLE SIZE          | 358,480 | 253,660 | 175,980 | 114,600 | 69,080 | 27,920 | 230           |

summary information Pacing Leads

# Pacing Leads Survival Probability Summary

| MODELS   | FAMILY                                     | 1 YEAR | 2 YEAR | 3 YEAR | 4 YEAR | 5 YEAR | 6 YEAR | 7 YEAR | 8 YEAR | 9 YEAR | 10 YEAR |
|----------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| LPA1231* | UltiPace <sup>™</sup>                      |        |        |        |        |        |        |        |        |        |         |
| LPA1200M | Tendril MRI                                | 99.73% | 99.53% | 99.35% | 99.13% | 98.86% | 98.64% | 98.45% | 98.10% | 97.43% | 97.03%  |
| 2088TC   | Tendril <sup>®</sup> STS                   | 99.67% | 99.46% | 99.25% | 99.02% | 98.80% | 98.56% | 98.30% | 98.00% | 97.64% | 97.18%  |
| 1999     | OptiSense" Optim"                          | 99.65% | 99.43% | 99.23% | 99.00% | 98.81% | 98.54% | 98.18% | 97.84% | 97.36% | 96.87%  |
| 1944     | IsoFlex" Optim"                            | 99.57% | 99.36% | 99.12% | 98.94% | 98.74% | 98.44% | 98.13% | 97.92% | 97.52% | 97.17%  |
| 1948     | IsoFlex" Optim"                            | 99.76% | 99.56% | 99.33% | 99.08% | 98.78% | 98.53% | 98.18% | 97.80% | 97.39% | 96.89%  |
| 1699T/TC | OptiSense"                                 | 99.78% | 99.65% | 99.51% | 99.43% | 99.18% | 98.94% | 98.69% | 98.33% | 98.10% | 97.82%  |
| 1888T/TC | Tendril <sup>®</sup> ST Optim <sup>®</sup> | 99.75% | 99.57% | 99.35% | 99.09% | 98.78% | 98.42% | 98.00% | 97.54% | 97.10% | 96.59%  |
| 1882T/TC | Tendril" ST Optim"                         | 99.70% | 99.55% | 99.38% | 99.21% | 99.00% | 98.71% | 98.40% | 98.07% | 97.64% | 97.20%  |
| 1782T/TC | Tendril <sup>™</sup>                       | 99.80% | 99.67% | 99.50% | 99.36% | 99.10% | 98.86% | 98.60% | 98.23% | 97.88% | 97.63%  |
| 1788T/TC | Tendril <sup>™</sup>                       | 99.83% | 99.75% | 99.65% | 99.53% | 99.37% | 99.14% | 98.84% | 98.55% | 98.29% | 98.12%  |
| 1648T    | IsoFlex" P                                 | 99.76% | 99.62% | 99.35% | 99.35% | 99.07% | 98.60% | 98.24% | 97.67% | 97.16% | 96.60%  |
| 1688T/TC | Tendril <sup>™</sup> SDX                   | 99.82% | 99.69% | 99.55% | 99.40% | 99.22% | 98.98% | 98.71% | 98.37% | 98.06% | 97.75%  |

\*No survival probability is stated at one year due to the device not meeting the required minimum sample size of 200 U.S. implants with 12 consecutive months of data. Please refer to the individual graphs for data up to one year.

## Pacing Leads Acute Observation Summary POST IMPLANT ≤30 DAYS

|          | US<br>REGULATORY | REGISTERED  | ESTIMATED<br>ACTIVE US |     | RDIAC  |     | UCTOR   | LE<br>DISLOD | AD<br>GEMENT |     | IRE TO<br>TURE | OVERS | ENSING |     | LURE   |     | ATION<br>ACH | PA  | ORMAL<br>CING<br>DANCE |     | CARDIAC<br>LATION | от  | HER    | то   | TAL   | TOTAL<br>RETURNED<br>FOR |
|----------|------------------|-------------|------------------------|-----|--------|-----|---------|--------------|--------------|-----|----------------|-------|--------|-----|--------|-----|--------------|-----|------------------------|-----|-------------------|-----|--------|------|-------|--------------------------|
| MODELS   | APPROVAL         | US IMPLANTS | IMPLANTS               | QTY | RATE   | QTY | RATE    | QTY          | RATE         | QTY | RATE           | QTY   | RATE   | QTY | RATE   | QTY | RATE         | QTY | RATE                   | QTY | RATE              | QTY | RATE   | QTY  | RATE  | ANALYSIS                 |
| LPA1231  | May-23           | 1,199       | 1,173                  | 0   | 0.00%  | 0   | 0.00%   | 1            | 0.08%        | 1   | 0.08%          | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%        | 0   | 0.00%                  | 0   | 0.00%             | 1   | 0.08%  | 3    | 0.25% | 0                        |
| LPA1200M | Jan-17           | 199,280     | 113,262                | 59  | 0.03%  | 3   | < 0.01% | 418          | 0.21%        | 68  | 0.03%          | 20    | 0.01%  | 27  | 0.01%  | 2   | <0.01%       | 2   | <0.01%                 | 8   | <0.01%            | 62  | 0.03%  | 669  | 0.34% | 246                      |
| 2088TC   | May-09           | 1,210,377   | 609,219                | 299 | 0.02%  | 11  | < 0.01% | 1764         | 0.15%        | 540 | 0.04%          | 138   | 0.01%  | 70  | <0.01% | 27  | <0.01%       | 67  | <0.01%                 | 18  | <0.01%            | 235 | 0.02%  | 3169 | 0.26% | 1080                     |
| 1999     | Oct-09           | 48,429      | 18,958                 | 5   | 0.01%  | 0   | 0.00%   | 64           | 0.13%        | 8   | 0.02%          | 10    | 0.02%  | 3   | <0.01% | 1   | <0.01%       | 0   | 0.00%                  | 0   | 0.00%             | 14  | 0.03%  | 105  | 0.22% | 59                       |
| 1944     | Mar-08           | 21,422      | 8,492                  | 0   | 0.00%  | 0   | 0.00%   | 124          | 0.58%        | 18  | 0.08%          | 1     | <0.01% | 3   | 0.01%  | 0   | 0.00%        | 0   | 0.00%                  | 3   | 0.01%             | 4   | 0.02%  | 153  | 0.71% | 73                       |
| 1948     | Mar-08           | 79,507      | 31,359                 | 6   | <0.01% | 1   | < 0.01% | 86           | 0.11%        | 56  | 0.07%          | 4     | <0.01% | 2   | <0.01% | 4   | <0.01%       | 1   | <0.01%                 | 2   | <0.01%            | 9   | 0.01%  | 171  | 0.22% | 74                       |
| 1699T/TC | May-07           | 23,977      | 6,304                  | 1   | <0.01% | 0   | 0.00%   | 4            | 0.02%        | 4   | 0.02%          | 3     | 0.01%  | 8   | 0.03%  | 0   | 0.00%        | 0   | 0.00%                  | 0   | 0.00%             | 2   | <0.01% | 22   | 0.09% | 16                       |
| 1888T/TC | Jun-06           | 315,900     | 91,656                 | 41  | 0.01%  | 8   | < 0.01% | 158          | 0.05%        | 88  | 0.03%          | 22    | <0.01% | 14  | <0.01% | 7   | <0.01%       | 10  | <0.01%                 | 5   | <0.01%            | 42  | 0.01%  | 395  | 0.13% | 207                      |
| 1882T/TC | Jun-06           | 50,312      | 17,565                 | 4   | <0.01% | 0   | 0.00%   | 49           | 0.10%        | 12  | 0.02%          | 6     | 0.01%  | 4   | <0.01% | 0   | 0.00%        | 1   | <0.01%                 | 0   | 0.00%             | 15  | 0.03%  | 91   | 0.18% | 49                       |
| 1782T/TC | Feb-06           | 16,576      | 4,036                  | 6   | 0.04%  | 0   | 0.00%   | 13           | 0.08%        | 5   | 0.03%          | 0     | 0.00%  | 0   | 0.00%  | 0   | 0.00%        | 2   | 0.01%                  | 1   | <0.01%            | 2   | 0.01%  | 29   | 0.17% | 16                       |
| 1788T/TC | Feb-06           | 65,626      | 15,782                 | 12  | 0.02%  | 1   | <0.01%  | 31           | 0.05%        | 31  | 0.05%          | 4     | <0.01% | 2   | <0.01% | 1   | <0.01%       | 9   | 0.01%                  | 2   | <0.01%            | 20  | 0.03%  | 113  | 0.17% | 49                       |
| 1648T    | Apr-05           | 2,836       | 614                    | 0   | 0.00%  | 0   | 0.00%   | 2            | 0.07%        | 2   | 0.07%          | 0     | 0.00%  | 1   | 0.04%  | 0   | 0.00%        | 0   | 0.00%                  | 1   | 0.04%             | 0   | 0.00%  | 6    | 0.21% | 1                        |
| 1688T/TC | Jun-03           | 494,454     | 121,850                | 81  | 0.02%  | 6   | <0.01%  | 322          | 0.07%        | 203 | 0.04%          | 24    | <0.01% | 34  | <0.01% | 10  | <0.01%       | 30  | <0.01%                 | 8   | <0.01%            | 68  | 0.01%  | 786  | 0.16% | 353                      |

# Chronic Complication Summary >30 DAYS

|          | US                     |                           | ESTIMATED |     | RDIAC  | COND<br>FRAC | UCTOR | LE<br>DISLOD | AD<br>GEMENT | FAILU<br>CAP | IRE TO<br>TURE | OVERS | ENSING |     | LURE    |     | ATION | PAG | DRMAL<br>CING<br>DANCE |     | CARDIAC | отн | HER   | то    | TAL   | TOTAL<br>RETURNED |
|----------|------------------------|---------------------------|-----------|-----|--------|--------------|-------|--------------|--------------|--------------|----------------|-------|--------|-----|---------|-----|-------|-----|------------------------|-----|---------|-----|-------|-------|-------|-------------------|
| MODELS   | REGULATORY<br>APPROVAL | REGISTERED<br>US IMPLANTS | ACTIVE US | QTY | RATE   | QTY          | RATE  | QTY          | RATE         | QTY          | RATE           | QTY   | RATE   | QTY | RATE    | QTY | RATE  | QTY | RATE                   | QTY | RATE    | QTY | RATE  | QTY   | RATE  | FOR<br>ANALYSIS   |
| LPA1231  | May-23                 | 1,199                     | 1,173     | 0   | 0.00%  | 0            | 0.00% | 1            | 0.08%        | 0            | 0.00%          | 0     | 0.00%  | 0   | 0.00%   | 0   | 0.00% | 1   | 0.08%                  | 0   | 0.00%   | 1   | 0.08% | 3     | 0.25% | 0                 |
| LPA1200M | Jan-17                 | 199,280                   | 113,262   | 22  | 0.01%  | 112          | 0.06% | 541          | 0.27%        | 364          | 0.18%          | 753   | 0.38%  | 57  | 0.03%   | 38  | 0.02% | 89  | 0.04%                  | 12  | <0.01%  | 50  | 0.03% | 2038  | 1.02% | 538               |
| 2088TC   | May-09                 | 1,210,377                 | 609,219   | 162 | 0.01%  | 555          | 0.05% | 2895         | 0.24%        | 2537         | 0.21%          | 8136  | 0.67%  | 334 | 0.03%   | 554 | 0.05% | 581 | 0.05%                  | 107 | <0.01%  | 442 | 0.04% | 16303 | 1.35% | 4069              |
| 1999     | Oct-09                 | 48,429                    | 18,958    | 2   | <0.01% | 23           | 0.05% | 198          | 0.41%        | 128          | 0.26%          | 652   | 1.35%  | 56  | 0.12%   | 61  | 0.13% | 25  | 0.05%                  | 2   | <0.01%  | 31  | 0.06% | 1178  | 2.43% | 291               |
| 1944     | Mar-08                 | 21,422                    | 8,492     | 1   | <0.01% | 12           | 0.06% | 84           | 0.39%        | 73           | 0.34%          | 197   | 0.92%  | 11  | 0.05%   | 9   | 0.04% | 9   | 0.04%                  | 1   | <0.01%  | 6   | 0.03% | 403   | 1.88% | 66                |
| 1948     | Mar-08                 | 79,507                    | 31,359    | 13  | 0.02%  | 131          | 0.16% | 98           | 0.12%        | 321          | 0.40%          | 597   | 0.75%  | 7   | < 0.01% | 127 | 0.16% | 61  | 0.08%                  | 9   | 0.01%   | 36  | 0.05% | 1400  | 1.76% | 213               |
| 1699T/TC | May-07                 | 23,977                    | 6,304     | 0   | 0.00%  | 20           | 0.08% | 57           | 0.24%        | 65           | 0.27%          | 174   | 0.73%  | 34  | 0.14%   | 11  | 0.05% | 30  | 0.13%                  | 3   | 0.01%   | 11  | 0.05% | 405   | 1.69% | 92                |
| 1888T/TC | Jun-06                 | 315,900                   | 91,656    | 46  | 0.01%  | 365          | 0.12% | 640          | 0.20%        | 1248         | 0.40%          | 4284  | 1.36%  | 162 | 0.05%   | 544 | 0.17% | 327 | 0.10%                  | 49  | 0.02%   | 208 | 0.07% | 7873  | 2.49% | 1735              |
| 1882T/TC | Jun-06                 | 50,312                    | 17,565    | 4   | <0.01% | 27           | 0.05% | 172          | 0.34%        | 148          | 0.29%          | 503   | 1.00%  | 33  | 0.07%   | 63  | 0.13% | 36  | 0.07%                  | 4   | <0.01%  | 34  | 0.07% | 1024  | 2.04% | 220               |
| 1782T/TC | Feb-06                 | 16,576                    | 4,036     | 0   | 0.00%  | 6            | 0.04% | 54           | 0.33%        | 61           | 0.37%          | 85    | 0.51%  | 10  | 0.06%   | 7   | 0.04% | 21  | 0.13%                  | 1   | <0.01%  | 6   | 0.04% | 251   | 1.51% | 73                |
| 1788T/TC | Feb-06                 | 65,626                    | 15,782    | 8   | 0.01%  | 40           | 0.06% | 80           | 0.12%        | 215          | 0.33%          | 313   | 0.48%  | 27  | 0.04%   | 37  | 0.06% | 59  | 0.09%                  | 9   | 0.01%   | 37  | 0.06% | 825   | 1.26% | 180               |
| 1648T    | Apr-05                 | 2,836                     | 614       | 0   | 0.00%  | 7            | 0.25% | 2            | 0.07%        | 17           | 0.60%          | 3     | 0.11%  | 1   | 0.04%   | 15  | 0.53% | 4   | 0.14%                  | 0   | 0.00%   | 6   | 0.21% | 55    | 1.94% | 8                 |
| 1688T/TC | Jun-03                 | 494,454                   | 121,850   | 46  | <0.01% | 658          | 0.13% | 659          | 0.13%        | 2050         | 0.41%          | 2642  | 0.53%  | 197 | 0.04%   | 276 | 0.06% | 735 | 0.15%                  | 54  | 0.01%   | 246 | 0.05% | 7563  | 1.53% | 1738              |

Definitions of observations and complications can be found on page 7.

# **Pacing Leads** U.S. Malfunction Summary

|          | REGISTERED  | PERCENT<br>RETURNED |     |        |      | ATION<br>ACH |     | S, WELDS<br>DNDS | от  | HER    |      | INSIC<br>TORS | то   | TAL   |
|----------|-------------|---------------------|-----|--------|------|--------------|-----|------------------|-----|--------|------|---------------|------|-------|
| MODELS   | US IMPLANTS | FOR ANALYSIS        | QTY | RATE   | QTY  | RATE         | QTY | RATE             | QTY | RATE   | QTY  | RATE          | QTY  | RATE  |
| LPA1231  | 1,199       | 1.00%               | 0   | 0.00%  | 0    | 0.00%        | 0   | 0.00%            | 0   | 0.00%  | 0    | 0.00%         | 0    | 0.00% |
| LPA1200M | 199,280     | 3.20%               | 67  | 0.03%  | 127  | 0.06%        | 0   | 0.00%            | 7   | <0.01% | 338  | 0.17%         | 539  | 0.27% |
| 2088TC   | 1,210,377   | 4.20%               | 132 | 0.01%  | 1654 | 0.14%        | 0   | 0.00%            | 35  | <0.01% | 2681 | 0.22%         | 4502 | 0.37% |
| 1999     | 48,429      | 5.90%               | 8   | 0.02%  | 119  | 0.25%        | 0   | 0.00%            | 7   | 0.01%  | 202  | 0.42%         | 336  | 0.69% |
| 1944     | 21,422      | 9.30%               | 0   | 0.00%  | 23   | 0.11%        | 0   | 0.00%            | 1   | <0.01% | 51   | 0.24%         | 75   | 0.35% |
| 1948     | 79,507      | 5.10%               | 23  | 0.03%  | 178  | 0.22%        | 0   | 0.00%            | 4   | <0.01% | 119  | 0.15%         | 324  | 0.41% |
| 1699T/TC | 23,977      | 6.10%               | 14  | 0.06%  | 56   | 0.23%        | 0   | 0.00%            | 0   | 0.00%  | 67   | 0.28%         | 137  | 0.57% |
| 1888T/TC | 315,900     | 5.70%               | 56  | 0.02%  | 1317 | 0.42%        | 1   | <0.01%           | 18  | <0.01% | 1006 | 0.32%         | 2398 | 0.76% |
| 1882T/TC | 50,312      | 4.90%               | 2   | <0.01% | 122  | 0.24%        | 0   | 0.00%            | 3   | <0.01% | 154  | 0.31%         | 281  | 0.56% |
| 1782T/TC | 16,576      | 5.90%               | 1   | <0.01% | 52   | 0.31%        | 0   | 0.00%            | 0   | 0.00%  | 51   | 0.31%         | 104  | 0.63% |
| 1788T/TC | 65,626      | 6.20%               | 10  | 0.02%  | 152  | 0.23%        | 1   | <0.01%           | 1   | <0.01% | 111  | 0.17%         | 275  | 0.42% |
| 1648T    | 2,836       | 6.60%               | 0   | 0.00%  | 20   | 0.71%        | 0   | 0.00%            | 2   | 0.07%  | 6    | 0.21%         | 28   | 0.99% |
| 1688T/TC | 494,454     | 5.90%               | 227 | 0.05%  | 1245 | 0.25%        | 2   | <0.01%           | 21  | <0.01% | 901  | 0.18%         | 2396 | 0.48% |

Definitions of malfunction categories can be found on pages 8-9.

# Pacing Leads Worldwide Malfunction Summary

|          | WORLDWIDE | PERCENT<br>RETURNED |     | OUCTOR<br>CTURE |      | ATION<br>ACH |     | S, WELDS<br>ONDS | от  | HER    |      | INSIC<br>TORS | то   | TAL   |
|----------|-----------|---------------------|-----|-----------------|------|--------------|-----|------------------|-----|--------|------|---------------|------|-------|
| MODELS   | SALES     | FOR ANALYSIS        | QTY | RATE            | QTY  | RATE         | QTY | RATE             | QTY | RATE   | QTY  | RATE          | QTY  | RATE  |
| LPA1231  | 1,180     | 1.02%               | 0   | 0.00%           | 0    | 0.00%        | 0   | 0.00%            | 0   | 0.00%  | 0    | 0.00%         | 0    | 0.00% |
| LPA1200M | 531,903   | 1.35%               | 103 | 0.02%           | 196  | 0.04%        | 0   | 0.00%            | 17  | <0.01% | 461  | 0.09%         | 777  | 0.15% |
| 2088TC   | 4,410,158 | 1.21%               | 177 | <0.01%          | 2032 | 0.05%        | 0   | 0.00%            | 99  | <0.01% | 3476 | 0.08%         | 5784 | 0.13% |
| 1888T/TC | 1,162,670 | 1.75%               | 77  | 0.01%           | 1506 | 0.13%        | 1   | <0.01%           | 37  | <0.01% | 1375 | 0.12%         | 2996 | 0.26% |

Definitions of malfunction categories can be found on pages 8-9.

Implantable Cardiac Monitors (ICM) Devices

## Implantable Cardiac Monitors (ICMs) Devices

US Malfunction Summary

|        |                              | REGISTERED  | PERCENT<br>RETURNED<br>FOR |     | IRICAL<br>ONENT |     | IRICAL<br>ONNECT | BAT | TERY  |     | WARE/ | месн | ANICAL | BAT | LE EARLY<br>TERY<br>.ETION | от  | HER    | то  | DTAL   |
|--------|------------------------------|-------------|----------------------------|-----|-----------------|-----|------------------|-----|-------|-----|-------|------|--------|-----|----------------------------|-----|--------|-----|--------|
| MODELS | FAMILY                       | US IMPLANTS | ANALYSIS                   | QTY | RATE            | QTY | RATE             | QTY | RATE  | QTY | RATE  | QTY  | RATE   | QTY | RATE                       | QTY | RATE   | QTY | RATE   |
| DM5500 | Assert™ IQ                   | 3,542       | 0.20%                      | 0   | 0.00%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00% | 0    | 0.00%  | 0   | 0.00%                      | 0   | 0.00%  | 0   | 0.00%  |
| DM5300 | Assert™ IQ                   | 3,649       | 0.40%                      | 0   | 0.00%           | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00% | 0    | 0.00%  | 0   | 0.00%                      | 0   | 0.00%  | 0   | 0.00%  |
| DM4500 | Jot Dx <sup>™</sup> ICM      | 29,161      | 1.60%                      | 1   | <0.01%          | 0   | 0.00%            | 0   | 0.00% | 0   | 0.00% | 0    | 0.00%  | 0   | 0.00%                      | 1   | <0.01% | 2   | <0.01% |
| DM3500 | Confirm Rx <sup>™</sup> ICM  | 100,574     | 4.90%                      | 11  | 0.01%           | 10  | <0.01%           | 0   | 0.00% | 0   | 0.00% | 2    | <0.01% | 9   | <0.01%                     | 7   | <0.01% | 39  | 0.04%  |
| DM2102 | SJM Confirm <sup>™</sup> ICM | 5,873       | 15.00%                     | 19  | 0.32%           | 0   | 0.00%            | 1   | 0.02% | 0   | 0.00% | 0    | 0.00%  | 1   | 0.02%                      | 5   | 0.09%  | 26  | 0.44%  |
| DM2100 | SJM Confirm <sup>™</sup> ICM | 18,687      | 17.90%                     | 15  | 0.08%           | 1   | <0.01%           | 20  | 0.11% | 10  | 0.05% | 0    | 0.00%  | 7   | 0.04%                      | 42  | 0.22%  | 95  | 0.51%  |

Definitions of malfunction categories can be found on pages 5-6.

# ICD Premature Battery Depletion Advisory Update - June 2024

Since the original October 2016 communication, Abbott (formerly St. Jude Medical) has continued to analyze and review the performance data from the affected device population. The rates reported below summarize performance data through February, 29, 2024.

Importantly, the information contained in this notice has not altered our previously communicated patient management recommendations. This information is intended to keep you informed of our continuous analysis of all products returned to the company.

### RATES

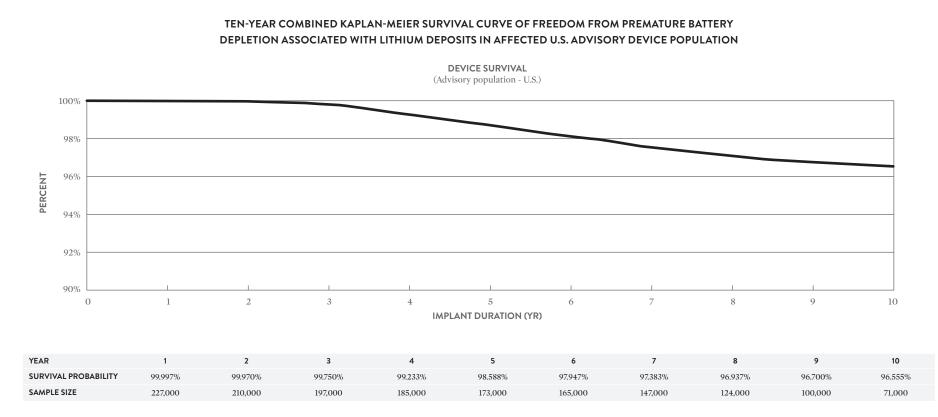
The table below summarizes the updated worldwide experience for the affected devices that were returned for product analysis due to premature battery depletion (PBD). The table includes the updated data through February 29, 2024. All events reported since August 31, 2022 were classified as "No Harm Reported/Additional Surgery Only"; there were no (0) reports of Loss of Pacing or Loss of Defibrillation.

| WORLDWIDE PATIENT IMPACT                  | NUMBER / RATE<br>THROUGH FEBRUARY 29, 2024 |
|---|--|
| No Harm Reported/Additional Surgery Only* | 9,621/2.413%                               |
| Loss of Pacing - Minor (Dizziness)        | 60/0.015%                                  |
| Loss of Pacing – Major (Syncope)          | 29/<0.01%                                  |
| Loss of Defibrillation – Emergency        | 4/<0.01%                                   |
| Loss of Defibrillation – Death            | 2/<0.01%                                   |
| Grand Total                               | 9,716/2.437%                               |
|   |  |
| Total Units Sold                          | 398,740                                    |

\*All impacts in this table were related to a replacement surgery, as the data are from units explanted and returned for analysis. The category "No Harm Reported/Additional Surgery Only" means there was no associated report of patient symptoms in addition to the replacement of the affected unit.

Note: The calculation also includes investigations associated with the Battery Performance Alert notifications. These are reflected in the "No Harm Reported/Additional Surgery Only" category.

Estimated Performance of Affected Fortify<sup>™</sup> Implantable Cardioverter Defibrillator (ICD), Fortify Assura<sup>™</sup> ICD, Quadra Assura<sup>™</sup> Cardiac Resynchronization Therapy Defibrillator (CRT-D), Unify<sup>™</sup> CRT-D, Unify Assura<sup>™</sup> CRT-D and Unify Quadra<sup>™</sup> CRT-D Devices



### SURVIVAL CALCULATION GENERAL METHODS

Internal modeling based on an analysis of field returns related to premature battery depletions associated with lithium clusters; updated with data through February 29, 2024.

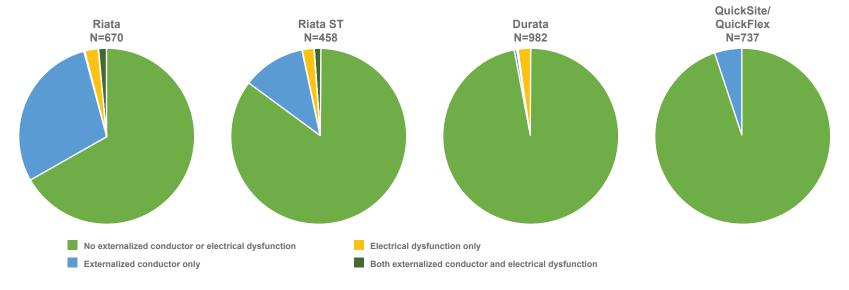
# Non-Advisory Population Update

Fortify<sup>™</sup>, Fortify Assura<sup>™</sup>, Quadra Assura<sup>™</sup>, Quadra Assura MP<sup>™</sup>, Unify<sup>™</sup>, Unify Assura<sup>™</sup> and Unify Quadra<sup>™</sup> Devices manufactured after May 23, 2015 were built with an improved battery design with additional insulation and thus not included in the advisory population. Information regarding the performance of the non-advisory devices is provided throughout this Product Performance Report, consistent with previous editions. Please refer to the specific model number and advisory designation in the associated CRT or ICD device sections of the report (beginning with page 11 or page 69 respectively).

# Update on Riata<sup>T</sup> Lead Performance

### **REGISTRY AND POST-MARKET STUDIES**

Prospective, monitored registries provide the best data to support clinical decision making. In December 2011, Abbott initiated the Riata Lead Evaluation Study (RLES) and enrolled 782 patients with Riata leads at sites in the U.S., Canada, and Japan. In 2013, Abbott expanded the RLES to include Durata and QuickSite/QuickFlex leads and to increase the quantity of monitored Riata and Riata ST leads. The expanded study, known as the "St. Jude Medical Cardiac Lead Assessment Study" (CLAS) began enrollment in February 2013 to ensure inclusion of at least 500 leads in each of those lead families. Under the CLAS protocol, patients were followed every six months for three years with cinefluoroscopy performed at yearly follow-up visits. The main objective of the study was to determine the prevalence and incidence of lead compromise evidenced by imaging and electrical dysfunction in Riata, Riata ST, QuickSite/QuickFlex, and Durata leads. Since initiation, Abbott provided biannual updates in the Product Performance Report (PPR) regarding the progress of the Cardiac Lead Assessment Study (CLAS) and Kaplan-Meier analysis of the leads which had been enrolled. In April 2022, the final assessment of each lead family's performance was published in the Heart Rhythm O2 journal<sup>1</sup> and is available online as an open access manuscript. The conclusion stated that "*a high prevalence of externalized conductors was found in Riata and Riata ST leads. Sin e leads with a higher risk of externalization for 8F Riata lead than for 7F Riata ST leads. The 98% reduction in prevalence of externalized conductors in Durata leads compared to Riata ST leads confirms that the design improvements culminating in Durata leads significantly improved abrasion resistance and durability." These findings are consistent with the data and analysis published in prior versions of the PPR. The excerpt below provides the 10-year survival probability for "Externalized Conductors" and the "Freedom from Electrical Dysfunction":* 



<sup>&</sup>lt;sup>1</sup> Heart Rhythm O2 2022; Volume 3, Issue 2, pgs. 160-168

#### **CUSTOMER REPORTED PERFORMANCE DATA**

As in prior publications, Abbott provides externalized conductor rates from the passive data system to maintain continuity with previously published data and to provide full disclosure of the data available to Abbott. As of February 29, 2024, there were 6,750 cases of externalized conductors reported to Abbott worldwide on Riata<sup>TM</sup> (8F) and Riata<sup>TM</sup> ST (7F) silicone defibrillation leads, equating to a 3.61% (5,642/156,000) incidence rate for Riata (8F) and 1.57% (1,108/70,600) for Riata ST (7F) leads. Of these 6,750 leads, 4,927 were not returned and 1,823 were returned for analysis.

The following table summarizes advisories and safety alerts regarding Abbott implantable device systems since 2005. These advisories and alerts have been previously communicated to physicians. For more information please access our Product Advisory web page at <u>Cardiovascular Product Advisories | Abbott</u> or contact Abbott Technical Services at 1-800-722-3774.

### ICD AND CRT-D DEVICES

| MODEL IDENTIFICATION   | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|---|---|
| GLOBAL MODELS<br>A subset of Gallant" VR (Model CDVRA500Q), Gallant" HF (Model<br>CDHFA500Q) , Gallant" DR (Model CDDRA500Q), Neutrino" NxT HF (Model<br>CDHFA600Q), Neutrino" NxT DR (Model CDDRA600Q), Neutrino" NxT<br>VR (CDVRA600Q), Entrant" HF (Model CDHFA300Q), Entrant" VR (Model<br>CDVRA300Q), and Entrant" DR (Model CDDRA300Q) | 8/18/2023<br>Class II<br>Abbott informed customers of a rare potential<br>for a Bluetooth (BLE) circuit component issue<br>on subset of Gallant", Neutrino", and Entrant"<br>Implantable Cardioverter Defibrillators (ICDs) and<br>Cardiac Resynchronization Therapy Defibrillators<br>(CRT-Ds) manufactured prior to April 2022. This<br>issue has been associated with a risk of loss of<br>Bluetooth communication, higher than normal<br>current consumption, and reduced device longevity.<br>A sub-group of approximately 1,500 devices are<br>more likely to manifest this issue as compared to<br>the remaining 65,500 devices. | <ul> <li>Recognizing that each patient requires individual consideration by their physician, in consultation with Abbott CRM's Medical Advisory Board (MAB), Abbott is providing the following guidelines:</li> <li>Prophylactic device replacement is NOT recommended as the new firmware version pr00.10.87.04 eliminates the potential for loss of therapy between follow-ups due to unrecognized decreased device longevity.</li> <li>Determine the firmware version of devices followed at your clinic. The device firmware version is visible in the footer of any programmer reports from the Merlin" PCS 3650 or Merlin" 2 PCS.</li> <li>For patients with firmware version pr00.10.87.04 or informate version undetermined, upgrade devices to device firmware version pr00.10.87.04 by interrogating patients in clinic with Merlin" PCS 3650 programmer or Merlin" 2 PCS MER3700 programmer software versions listed below.</li> <li>Prioritize in-clinic firmware upgrade for the specific devices from the 1,500 device sub-group.</li> <li>For pratients, schedule the next follow-up in-clinic to complete the firmware upgrade.</li> <li>Following firmware upgrade, continue to follow patients routinely at the recommended interval per the device User's Manual.</li> <li>If a device experiences a loss of Bluetooth communication, contact Abbott Technical Support for troubleshooting to determine whether the loss of Bluetooth communication is related to this issue.</li> </ul> |

or 25.8.# rev 1 (all other countries) or later

Merlin" 2 Patient Care System (PCS) Software Model MER3400 version 1.8.2 rev 1 or later (Europe) or any other software version in all other countries

Current Status (December 31, 2023): 41 devices of the 67,121 devices distributed globally (0.06%) are known to have lost Bluetooth communication due to this issue.

### ICD AND CRT-D DEVICES

| MODEL IDENTIFICATION   | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|--|---|
| <b>GLOBAL MODELS</b><br>Subset of Ellipse" (Models CD2411-36C, CD1277-36, CD1377-36C,<br>CD1377-36QC, CD2277-36Q, CD2377-36QC) | 1/22/2020<br>Class II<br>Abbott is notifying physicians that a small number<br>of Ellipse" Implantable Cardioverter Defibrillators           | Abbott has developed a software patch for the Merlin <sup>™</sup> PCS Programmer which restores wireless RF communication capability<br>in affected devices. This solution does not present additional risk to patients and device explant is not required for the update.<br>The solution is available in Merlin <sup>™</sup> PCS Programmer software Model 3330 v24.6.1 or later and Abbott will assist in updating<br>programmer software and restoring wireless RF communication for these devices. |
|  | (ICDs) may lose wireless radiofrequency (RF)<br>communication. Devices will continue to function<br>normally, but remote monitoring and data | We recommend working with your Abbott representative to help correct affected devices during the patient's next regularly scheduled visit.  |
|  | transmission capabilities may be interrupted.  | Current Status (December 31, 2023): No occurrences have been reported following the field communication and correction.   |

| MODELIDENTIFICATION   | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|---|---|---|
| GLOBAL MODELS<br>Ellipse''' (Models CD1411-36Q, CD2411-36Q, CD2411-36C) | 6/21/2019<br>Class I<br>The potential for electrical failures was identified<br>in implantable cardioverter defibrillators (ICDs)<br>due to a manufacturing error with aluminum<br>wires. The affected ICDs may contain electrical<br>wire connections which may not be completely<br>insulated. The potential patient impact could be the<br>inability to deliver high voltage therapy. There is no<br>available option to verify the vulnerability status for<br>implanted devices. | On June 20, 2019 Abbott began voluntarily recalling a small number (204 devices globally) of Ellipse implantable cardioverter defibrillators (ICDs) from our customers and hospitals to prevent implant of devices globally) of Ellipse implantable cardioverter defibrillators (ICDs) from our customers and hospitals to prevent implant of devices globally) of Ellipse implantable cardioverter defibrillators (ICDs) from our customers and hospitals to prevent implant of devices that may have a latent vulnerability in the electronics circuitry. We have currently received zero (0) product performance complaints related to this issue. On June 21, 2019, hand-delivery of Urgent Medical Device Recall Notices to physicians supporting implanted patients commenced. Device explant and replacement are recommended. Customers were advised to: 1) Review the device model and serial numbers in the appendix of the customer letter to identify the impacted patients and return the acknowledgement form to the Abbott sales representative; labbatt. Customers with additional questions are encouraged to call 1-800-727-7846 (Opt3), 8:30am - 5:30pm Central Time, Monday thru Friday.  Current Status (December 31, 2023): No occurrences of failure to deliver high voltage therapy have been reported following the field communication. Potentially affected devices have been or are planned for explant per recommendations. |

### ICD AND CRT-D DEVICES

| MODEL IDENTIFICATION   | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|--|---|--|
| GLOBAL MODELS Current" (Models 1207-30, 1207-36, 2207-30, 2207-36, CD1211-36, CD1211-36Q, CD1215-36, CD1215-36, CD1217-36, CD1217-36, CD1219-36, CD2211-36Q, CD2211-36Q, CD2215-36, CD2215-36Q, CD2217-36, CD1217-36Q, CD1293-36Q, CD1309-36, CD1309-36Q, CD1311-36, CD1311-36Q, CD1377-36Q, CD1293-36Q, CD1411-36C, CD1411-36Q, CD1317-36Q, CD1277-36C, CD1297-36Q, CD2277-36C, CD2277-36Q, CD2293-36, CD2293-36Q, CD2309-36, CD2309-36, CD2309-36, CD2309-36, CD2309-36, CD2309-36Q, CD2311-36, CD2311-36Q, CD2377-36Q, CD2293-36Q, CD2309-36, CD2311-36, CD2311-36Q, CD2377-36Q, CD2377-36Q, CD2377-36Q, CD2377-36Q, CD2377-36Q, CD2377-36Q, CD2377-36Q, CD2377-36Q, CD2377-36Q, CD2351-40Q, CD3281-40Q) Excelis" (Models CD3389-40C, CD3389-40Q, C) Excelis" (Models CD3389-40C, CD2357-40Q, CD2259-40, CD2259-40, CD2259-40, CD2259-40Q, CD2359-40Q, CD2357-40C, CD2359-40Q, CD2359-40Q, CD2359-40Q, CD2359-40Q, CD2359-40Q, CD2359-40Q, CD2359-40Q, CD2359-40Q, CD2359-40Q, CD1257-40Q, CD1257-40Q, CD1259-40, CD1259-40Q, CD1363-40C, CD1363-40Q) Fortify Assura" ST VR (Models CD1257-40, CD1257-40Q, CD1259-40, CD1259-40Q, CD1357-40Q, CD1357-40Q, CD1359-40Q, CD1357-40Q, CD1359-40Q, CD1357-40Q, CD1359-40Q, CD1231-40, CD1231-40Q, Portify" ST DR (Models CD1235-40, CD235-40Q, CD1233-40Q) Fortify" ST DR (Models CD1235-40, CD1235-40Q, CD1233-40Q) Fortify" VR (Models C | 4/16/2018<br>Class II<br>Abbott released a planned upgrade to the<br>firmware installed on our implantable cardioverter<br>defibrillator (ICD) or cardiac resynchronization<br>therapy defibrillator (CRT-D) devices. The<br>cybersecurity firmware update provides an<br>additional layer of protection against unauthorized<br>device access. | <ul> <li>Prophylactic replacement of affected devices is not recommended.</li> <li><b>Recommendations for Devices Eligible for Firmware Upgrade</b></li> <li>While not intended to serve as a substitute for your professional judgment, we, along with our Medical Advisory Boards, recommend the firmware upgrade for all eligible patients at the next regularly scheduled visit or when appropriate depending on the preferences of the patient and physician.</li> <li>Please consider the following: <ul> <li>Obscuss the risks and benefits of the firmware update with your patients. As part of this discussion, it is important to consider patient specific issues such as pacemaker dependence, frequency of high voltage therapy, age of device, and patient preference.</li> <li>If deemed appropriate, install this firmware update following the instructions on the programmer.</li> <li>The update should be performed with appropriate monitoring and external defibrillation equipment available.</li> </ul> </li> <li><i>Roommendations for Current<sup>®</sup> &amp; Promote<sup>®</sup> Devices not Eligible for Cybersecurity Firmware Update</i></li> <li>If you have any concerns relating to device cybersecurity for those patients implanted with Current<sup>®</sup>, Promote<sup>®</sup> Devices, sou do have the option to permanently disable the RF communication capability in the device. However, if you choose that option, the patient can no longer be monitored remotely using an RF Merlin@home transmitter. For most patients, permanently disabling RF is not advisable given the proven benefits and improved survival associated with home monitoring [1,2] Therefore we, along with our Medical Advisory Boards, recommend the following: <ul> <li>If deemed appropriate, RF communication may be permanently disabled during an in-clinic device interrogation with Merlin programmer software version 24.2.x or later by selecting the RF icon in the upper left corner of the FastPath summary screen.</li> </ul> </li> <li>Undernet Status (December 31, 2023): We have received no reports of device compromise related to t</li></ul> |
|  |   |  |

Quadra Assura MP<sup>™</sup> (Models CD3269-40, CD3269-40Q, CD3271-40, CD3271-40Q, CD3369-40C, CD3369-40Q, CD3371-40, CD3371-40C,

Quadra Assura<sup>w</sup> (Models CD3265-40, CD3265-40Q, CD3267-40, CD3267-40Q, CD3365-40C, CD3365-40Q, CD3367-40, CD3367-40C, CD3367-40Q,

Unify Assura<sup>™</sup> (Models CD3257-40, CD3257-40Q, CD3261-40, CD3261-40Q, CD3357-40C, CD3357-40Q, CD3361-40, CD3361-40C, CD3361-40Q,

Unify Quadra<sup>w</sup> (Models CD3249-40, CD3249-40Q, CD3251-40, CD3251-40Q) Unify<sup>w</sup> (Models CD3231-40, CD3231-40Q, CD3235-40, CD3235-40Q)

Unify Quadra MP<sup>11</sup> (Models CD3255-40, CD3255-40Q)

CD3371-40Q, CD3371-40QC)

CD3367-40QC)

CD3361-40QC)

### ICD AND CRT-D DEVICES

CD3361-40, CD3361-40C, CD3361-40Q, CD3361-40QC)

Unify Quadra MP<sup>-</sup> (Models CD3255-40, CD3255-40Q)

Unify (Models CD3231-40, CD3231-40Q, CD3235-40,

Unify Quadra" (Models CD3249-40, CD3249-40Q,

CD3251-40, CD3251-40Q)

CD3235-40Q)

| MODEL IDENTIFICATION   | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|--|---|
| GLOBAL MODELS<br>Excelis Ouadra" (Models CD3281-40, CD3281-400)  | 10/11/2016<br>Class I  | In consultation with our Medical Advisory Board, we recommend the following:  |
| Excelis" + (Models CD3389-40C, CD3389-40QC)  |  | Do not implant unused affected devices.   |
| Excelis" CRT-D (Models CD3297-40, CD3297-40Q)  | High voltage devices (ICDs and CRT-Ds) that  | Conduct patient follow-up per standard practice.  |
| Fortify Assura DR (Models CD2257-40, CD2257-40Q,   | utilize Lithium-based battery chemistries are  | • Prophylactic device replacement is NOT recommended because complications following replacement have been reported to occur at   |
| CD2259-40, CD2259-40Q, CD2357-40C, CD2357-40Q,   | subject to Lithium cluster formation during high   | a greater rate than the rate of harm associated with premature battery depletion due to lithium cluster induced shorts (see below for   |
| CD2359-40, CD2359-40C, CD2359-40Q, CD2359-40QC)  | voltage charging. Depending on their location,   | selected references).   |
| Fortify Assura ST DR (Models CD2263-40, CD2263-40Q,  | Lithium clusters may cause a short circuit that  | • In the event of an ERI indicator in these devices, immediate device change is recommended. At this time there is no factor, method or test  |
| CD2363-40C, CD2363-40Q)  | can lead to premature battery depletion. Our   | to identify devices with this form of premature battery depletion approaching ERI or to accurately predict remaining battery life once  |
| Fortify Assura ST VR (Models CD1263-40, CD1263-40Q,  | investigation indicates that if a short circuit occurs,  | ERI appears.  |
| CD1363-40C, CD1363-40Q)  | battery depletion can occur in these devices within<br>a day to a few weeks, which may result in the | <ul> <li>Physicians should reaffirm the availability of home monitoring to avoid or minimize time without device therapy for bradycardia and<br/>technologie awarte</li> </ul>  |
| Fortify Assura <sup>¬</sup> VR (Models CD1257-40, CD1257-40Q, CD1259-40, CD1259-40Q, CD1357-40Q, CD1357-40Q,                   | a day to a few weeks, which may result in the<br>inability to deliver therapy.                       | tachycardia events. <ul> <li>Enroll patients in Merlin.net<sup>¬</sup> Patient Care Network (PCN) utilizing the "DirectAlerts<sup>¬</sup>" feature to provide you with an immediate alert</li> </ul>  |
| CD1259-40, CD1259-40Q, CD1357-40C, CD1357-40Q,<br>CD1359-40, CD1359-40C, CD1359-40Q, CD1359-40QC)                              | maomity to deriver therapy.  | • Enroll patients in Merlin.net Patient Care Network (PCN) utilizing the "DirectAlerts" feature to provide you with an immediate alert<br>notification in the event ERI is reached. For patients currently enrolled in Merlin.net PCN, remind them of the importance of using |
| Fortify <sup>-</sup> DR (Models CD2231-40, CD2231-40Q, CD2233-40,  |  | remote monitoring.  |
| CD2233-400)  |  | Review the most recent Programmed Parameters printout.  |
| Fortify ST DR (Models CD2235-40, CD2235-40Q,   |  | <ul> <li>Ensure that under the "Trigger Alerts When" section, that the "Device at ERI" parameter is ON (it is normally ON) for both "Show on</li> </ul>   |
| CD2241-40, CD2241-40Q)   |  | FastPath" and "Notify Patient" selections.  |
| Fortify ST VR (Models CD1235-40, CD1235-40Q,   | 8/28/2017  | • If the "Device at ERI" alert is OFF, we recommend that the patient be seen promptly to program this parameter ON.   |
| CD1241-40, CD1241-40Q)   | Class I  | • Advise patients that an ERI indication triggers a vibratory alert. At the next scheduled office visit:  |
| Fortify VR (Models CD1231-40, CD1231-40Q, CD1233-40,   |  | • Interrogate the patient's device to determine if an ERI alert has been triggered. Premature battery depletion can be identified by  |
| CD1233-40Q)  | Customers were made aware of the availability  | physicians through home monitoring showing ERI or more advanced battery depletion.  |
| HeartMinder" + DR (Models CD2391-40C, CD2391-40QC)   | of a new battery performance management tool   | • Perform a patient notifier test to confirm that the patient feels and recognizes the vibratory alert.   |
| HeartMinder" + VR (Models CD1391-40C, CD1391-40QC)   | for detection of abnormal battery performance in   | • Patients who cannot feel the vibratory alert may experience loss of battery and/or loss of device function without their awareness.   |
| HeartMinder <sup>®</sup> ST DR (Models CD2299-40, CD2299-40Q)<br>HeartMinder <sup>®</sup> ST VR (Models CD1299-40, CD1299-40Q) | devices subject to the October 2016 advisory.  | <ul> <li>Advise the patient to contact your office promptly should they feel a vibratory alert.</li> <li>In-office evaluation should be performed to determine the reason for the alert as other non-critical events can also trigger a vibratory</li> </ul>                  |
| Quadra + Excelis" (Models CD1299-40, CD1299-40Q)   |  | <ul> <li>In-office evaluation should be performed to determine the reason for the alert as other non-critical events can also trigger a vibratory<br/>alert.</li> </ul>   |
| Quadra Assura MP <sup>-</sup> (Models CD3269-40, CD3269-40Q,   |  | act.  |
| CD3271-40, CD3271-40Q, CD3371-40, CD3371-40C,  |  | The following additional recommendations were communicated in April 2018 follow up advisory:  |
| CD3271-400, CD3271-400, CD3371-40, CD3371-40C,<br>CD3371-400, CD3371-40QC)   | A follow up was provided on April 16, 2018   | <ul> <li>Patients receiving the firmware update should be advised that the device-based Battery Performance Alert (BPA) will trigger a</li> </ul>   |
| Quadra Assura" (Models CD3265-40, CD3265-40Q,  | regarding the availability of a firmware upgrade for   | vibratory alert.  |
| CD3267-40, CD3267-40Q, CD3365-40C, CD3365-40Q,   | devices subject to the October 2016 advisory which   | • In the absence of a BPA being triggered in a patient's device, through Merlin.net or the Merlin programmer, we continue to recommend  |
| CD3367-40, CD3367-40C, CD3367-40Q, CD3367-40QC)  | provides further detection capability for premature  | adhering to the original patient management recommendations from the 2016 Premature Battery Depletion advisory. However, if the   |
| Unify Assura" (Models CD3257-40, CD3257-40Q,   | battery depletion.   | BPA is triggered, immediate device explant and replacement is recommended.  |
| CD3261-40, CD3261-40Q, CD3357-40C, CD3357-40Q,   |  |   |

#### Device Replacement Complication Publications

- John W. Moore III, William Barrington, et. al.; "Complications of replacing implantable devices in response to advisories: A single center experience"; International Journal of Cardiology 134 (2009) 42–46 (5.5% overall, 2.1% major complications)
- 2. Paul A. Gould, MBBS, PhD, Lorne J. Gula, MD, et. al., "Outcome of advisory implantable cardioverter- defibrillator replacement: One-year follow-up"; Heart Rhythm, Vol 5, No 12, December 2008 (9.1% overall, 5.9% major complications, including two deaths)
- 3. Krystina B. Lewis, Dawn Stacey, R.N., Ph.D., et. al.; "Estimating the Risks and Benefits of Implantable Cardioverter Defibrillator Generator Replacement: A Systematic Review; PACE, Vol. 39, July 2016 (7.5% overall, 4.0% major complications)

**Current Status (February 29, 2024):** At the time of the advisory, 841 returned devices (0.21%) of 398,740 devices worldwide had premature depletion in association with lithium clusters, including 549 in the US. As of February 29, 2024, there were additional occurrences reported to Abbott or returned for analysis resulting in a cumulative worldwide total of 9,716 devices. Based on this, the rate is now 2.44%.

For additional information and to determine if a device serial number is subject to this advisory, please go to the following website: Cardiovascular Product Advisories | Abbott.

### ICD AND CRT-D DEVICES

| MODEL IDENTIFICATION  | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|---|--|---|
| Ellipse <sup>-</sup> and Ellipse ST VR/DR<br>US: CD1309, CD1311*, CD1409,<br>CD1411*, CD2309, CD2311*,<br>CD2409, CD2411* (all -36, -36Q,<br>-36C and -36QC suffixes).<br>*Denotes models also sold OUS.<br>OUS: CD1277, CD1279, CD1293,<br>CD1295, CD1377, CD1393,<br>CD2295, CD2377, CD2393<br>(all -36, -36Q, -36C and -36QC<br>suffixes). | 8/19/2014<br>Class II<br>Extended Charge Time may result in delayed delivery of<br>high voltage therapy or prevent delivery of part or all of a<br>programmed high voltage therapy shock. The anomaly most<br>commonly presents as a vibratory patient notification and<br>upon interrogation, a programmer or Merlin.net <sup>®</sup> Patient<br>Care Network (PCN) alert indicating a "Capacitor Charge<br>Time Limit reached" message. This may occur during a<br>capacitor maintenance or charging for high voltage therapy.<br>The anomaly occurs as a result of internal damage to the<br>capacitors used in the high voltage charging circuitry of the<br>subject devices, which may result in an extended charge time.<br>As designed, the device will deliver the available energy on the | <ul> <li>Abbott recommends that patients with affected devices be enrolled in Merlin.net Patient Care Network (PCN) so that any extended charge time alert ("Capacitor Charge Time Limit reached" message) will be transmitted to Merlin.net PCN for patients being actively monitored and can be viewed by your clinic staff.</li> <li>If your patient has received a vibratory notification and/or if a programmer or Merlin.net alert for an extended charge time has been observed:</li> <li>Schedule your Ellipse ICD patient for an in-office follow-up evaluation as soon as possible.</li> <li>Interrogate the Ellipse ICD and perform a manual capacitor maintenance charge. Note the charge time to full charge; it should be approximately 15 seconds or less.</li> <li>Contact Abbott CRM Technical Services Department at 800-722-3774 to review the results of the capacitor maintenance test and discuss if additional evaluation is required.</li> <li>A device that has experienced repeated extended charge time out warnings should be considered for replacement.</li> <li>As the large majority of the extended charge time events have presented at the routine 6 month automatic capacitor maintenance interval, programming the interval to every 4 months at your patient's next scheduled follow up visit may provide an earlier indication of this potential anomaly. It should be noted that changing the device programming to a 4 month capacitor maintenance interval will reduce</li> </ul> |
|   | capacitors once the charge time limit of 32 seconds is reached,<br>even if the energy is less than the programmed value. This<br>condition is detectable as the device will initiate a vibratory<br>patient alert and, for patients enrolled and actively being  | device longevity by approximately 9%. Device replacement is not recommended for an Ellipse device exhibiting normal charge times, and patients should continue to be followed at routine follow up intervals, per HRS/EHRA Expert Consensus on Monitoring Cardiovascular Implantable Electronic Devices (CIED), April 2008.   |
|   | followed, a Merlin.net PCN notification. Additionally, upon<br>device interrogation, an alert message will indicate "Capacitor<br>Charge Time Limit reached" on a specific date. Approximately<br>97% of Ellipse ICD extended charge time events reported<br>to Abbott have been detected during capacitor maintenance   | Current Status (December 31, 2023): At the time of the advisory, the worldwide event rate of extended charge time on the affected population was 0.42%, based on 179 extended charge time events out of 43,000 worldwide sales. Through December 31, 2023, the rate remains stable at 1.52%. There have been no reports of serious injury or death within this population.  |

with the remainder detected during defibrillation threshold (DFT) testing. There have been no reported cases of an Ellipse device failing to deliver high voltage therapy to a patient when

needed.

### ICD AND CRT-D DEVICES

#### MODEL IDENTIFICATION

AnalyST Accel<sup>-</sup> DR RF

#### ADVISORY

#### 1/23/2014 Outside US only

(Models CD2219-36, CD2219-36Q) AnalyST Accel<sup>-</sup> VR RF (Models CD1219-36, CD1219-36Q) Current Accel<sup>-</sup> DR RF (Models CD2215-36, CD2215-36Q) Current Accel VR RF (Models CD1215-36, CD1215-36Q) Current<sup>-</sup> DR (Model 2207-36) Current VR (Model 1207-36) Ellipse" DR (Models CD2277-36, CD2277-36Q, CD2377-36, CD2377-36Q, CD2377-36C, CD2377-36QC) Ellipse" VR (Models CD1277-36, CD1277-36Q, CD1377-36, CD1377-36Q, CD1377-36C, CD1377-36QC) Fortify Assura DR (Models CD2259-40, CD2259-40Q, CD2359-40, CD2359-40Q, CD2359-40C, CD2359-40QC) Fortify Assura VR (Models CD1259-40, CD1259-400, CD1359-40, CD1359-400, CD1359-40C, CD1359-40QC) Fortify ST DR (Models CD2235-40, CD2235-40Q) Fortify ST VR (Models CD1235-40, CD1235-40Q) Promote Accel" RF (Models CD3215-36, CD3215-36Q) Promote Quadra" (Models CD3239-40, CD3239-40Q) Promote" (Model 3213-36) Quadra Assura" (Models CD3267-40, CD3267-40Q, CD3367-40, CD3367-40Q, CD3367-40C, CD3367-40QC) Quadra Assura MP" (Models CD3371-40, CD3371-400, CD3371-40C, CD3371-40QC) Unify Assura (Models CD3261-40. CD3261-400, CD3361-40, CD3361-400, CD3361-40C, CD3361-40QC) Unify Quadra" (Models CD3251-40, CD3251-40Q) Unify (Models CD3235-40, CD3235-40Q)

In November 2013, Abbott released the Merlin<sup>®</sup> Programmer Software version 17.2.2 rev. 0 (herein after referred to as 17.2.2) as an upgrade to existing programmers. Testing has shown that, when using a programmer with the 17.2.2 software, an incorrect value for sinus redetection, potentially affecting the high voltage therapy delivery sequence can occur when a device is programmed to a single VF detection zone. The issue can be introduced during programming of certain families of Abbott ICD/CRTD devices. The issue is not present when a device is programmed to a two or three zone configuration. When using the 17.2.2 software and any parameter is programmed as part of a single VF detection zone configuration, the sinus redetection value will be inappropriately set to zero milliseconds. As a result, any intrinsic activity following the first shock will be considered a "sinus rate" and the device will diagnose "return to sinus". Therefore, if the arrhythmia was not terminated by the initial high voltage therapy, the ongoing arrhythmia would be considered a new episode causing the next high voltage therapy to also be delivered at the first programmed energy level. For example, if the first shock is programmed to 20 joules and subsequent shocks are programmed to higher energy values, the only HV therapy the patient would receive if the arrhythmia continues and is redetected, would be 20 joules, rather than the increasing HV energy levels as programmed.

FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY

#### Immediate Resolution Steps:

- Review your SJM<sup>-</sup> ICD/CRT-D patient records for patients with affected devices implanted or seen in clinic starting in September 2013
  and programmed to a single VF detection zone with the 17.2.2 software. For patients identified during this review we recommend that you
  schedule an immediate follow-up visit. The programmer software version is printed on the bottom of each report page.
- For patient devices programmed as described above with 17.2.2 software, a new software version 17.2.3 will correct this issue and is
  expected to be available by February 2014. Your Abbott representative will assist you with obtaining and installing the 17.2.3 software on
  your programmer. Using this software, programming any parameter will reset the return to sinus criteria to normal function.
   If a patient is seen before the 17.2.3 software is installed, then program the device to a two or three zone configuration, even if one of the
- zones is strictly a monitor zone. This will resolve the issue when using a programmer with 17.2.2 software.

Current Status (December 31, 2023): Software version 17.2.3 which corrected the issue was released in early 2014. No occurrences have been reported or are expected following the field communication and correction.

### ICD AND CRT-D DEVICES

| MODEL IDENTIFICATION  | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|---|---|--|
| Fortify <sup>-</sup> ST (Models CD1235-40,<br>CD1235-40Q, CD2235-40,<br>CD2235-40Q) | 4/18/2013<br>Outside US only<br>The Merlin <sup>®</sup> PCS programmer software Model 3330 versions<br>14.2.2, 16.2.1 and 17.2.1.1 provide new features for Abbott<br>ICDs, including an option to enhance the ST diagnostic<br>features in Abbott Fortify <sup>®</sup> ST ICD models CD1235-40,<br>CD1235-400, CD2235-40 and CD2235-40Q via a device<br>software upgrade. During a device software upgrade, implanted<br>devices are temporarily placed into the back-up pacing (BVV1)<br>and back-up defibrillation only (BDFO) mode. The back-up<br>mode parameter settings will be in effect for the two minute<br>upgrade process. Once the upgrade successfully completes, the<br>device will revert to the previously programmed parameter<br>settings. Depending on the individual patient, this temporary<br>change in parameter values while in back-up defibrillation only<br>mode could make the device susceptible to oversensing and<br>potentially deliver high voltage therapy during the upgrade<br>procedure. | In order to prevent the potential for inappropriate therapy during the software upgrade process, consider programming the "Tachy<br>Therapy Enabled/Disabled" function to Disabled prior to proceeding with the software upgrade. It is imperative to re-interrogate the devic<br>and program the "Tachy Therapy Enabled/Disabled" function to Enabled after the upgrade has been successfully completed. As with any<br>device evaluation and programming, ECG monitoring and availability of back up external defibrillation equipment is recommended during<br>the entire software upgrade process.<br><b>Current Status (December 31, 2023)</b> : At the time of the advisory there were 20 devices confirmed to be affected by this issue. As of<br>December 31, 2023 there were an additional 52 devices confirmed with this issue. There have been no reports of serious injury or death. |

| MODEL IDENTIFICATION                 | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--------------------------------------|---|---|
| Convert <sup>*</sup> + (Model V-195) | 5/6/2010<br>Outside US only   | If a patient's device is already programmed to a two zone configuration with a Merlin <sup>¬</sup> PCS programmer running version 7.2.1, 8.2.1 or 10.2.0, a follow-up visit should be scheduled to perform the recommendations outlined below:  |
|                                      | A condition where devices programmed to a two-zone tachy<br>therapy configuration, using a Merlin <sup>®</sup> Patient Care System<br>(PCS) programmer running version 7.2.1, 8.2.1 or 10.2.0 software,<br>can result in the VT Therapy Timeout parameter being | A permanent correction is available in the new release of the Merlin <sup>®</sup> PCS programmer software version 10.2.2 which has received regulatory approval. Subsequently using a Merlin <sup>®</sup> programmer with 10.2.2 (or later) software and following the steps outlined below will ensure that the VT Therapy Timeout parameter is programmed ON. |
|                                      | programmed OFF and HV therapy not being available if ATP therapies are unsuccessful.  | <ol> <li>Interrogate the Convert+ ICD and verify that it is programmed to a two zone configuration.</li> <li>Program the device to a single zone, fibrillation only tachycardia mode. This action will program the VT Therapy Timeout parameter ON.</li> </ol>  |
|                                      |   | 3. Re-program the device to the desired two zone configuration. (VT Therapy Timeout will remain ON).  |
|                                      |   | If your patient's device is programmed to a single zone (fib only) there is no need to perform any reprogramming action.  |
|                                      |   | As these actions fully correct the potential issue there is no need to consider any device explant.   |
|                                      |   | Current Status (December 31, 2023): At the time of the advisory there was one report of this issue out of approximately 330 Convert+<br>Model V-195 ICDs distributed in Europe and Asia. As of December 31, 2023 there have been no additional reports associated with this   |

advisory.

### ICD AND CRT-D DEVICES

| MODEL IDENTIFICATION         | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|------------------------------|--|---|
| Epic <sup>-</sup> ICDs       | 1/16/2008  | A simple programmer software/device firmware upgrade will resolve the issue and prevent a future occurrence. Patients who are followed      |
| (Models V-197, V-235, V-337, | Class II   | on a routine basis with scheduled follow-up visits every three to six months should continue with their scheduled visit. Upon interrogation |
| V-338, V-339),               |  | of one of the subject devices, the Merlin Patient Care System and Model 3510 programmers with the newly provided software will              |
| Epic <sup>®</sup> + ICDs     | A very rare condition (incidence of eight in 143,000 devices     | automatically identify a device that can benefit from a firmware upgrade and will instruct the clinician that an upgrade is available.      |
| (Models V-196, V-233, V-236, | worldwide; six in the US and two outside the US) that could      |   |
| V-239, V-350)                | lead to a ventricular sensing anomaly in Epic" and Atlas" family | Abbott, along with our independent Medical Advisory Board members, has determined that no other action is recommended.                      |
| Epic" II ICDs                | of implantable cardioverter defibrillators (ICDs) has been       |   |
| (Models V-158, V-255, V-258, | identified. A loss of ventricular sensing would prevent an ICD   | Current Status (December 31, 2023): At the time of the advisory, there were 8 worldwide (6 U.S.) devices confirmed to have been affected    |
| V-355, V-356, V-357)         | from being able to detect an arrhythmia. The loss of ventricular | by this issue. As of December 31, 2023 there have been no additional devices confirmed to have this issue since the time of the advisory.   |
| Atlas" + ICDs                | sensing anomaly can only occur when the device's software        |   |
| (Model V-340, V-341, V-343,  | writes to a particular memory location and only if there is a    |   |
| V-193, V-242, V-243)         | precise alignment of two timing parameters that normally do      |   |
| Atlas" II ICDs               | not coincide during routine operation of the device. The precise |   |
| (Models V-168, V-265, V-268, | alignment requires the software write to occur at the exact time |   |
| V-365, V-366, V-367)         | that a comparison is made during a specific 61 microsecond       |   |
|                              | (µsec) window.   |   |

#### MODEL IDENTIFICATION

Photon<sup>®</sup> DR (V-230HV) (certain serial numbers), Photon<sup>®</sup> Micro VR/DR (Models V-194, V-232), Atlas<sup>®</sup> VR/DR (Models V-199, V-240) 10/7/2005 Class II

ADVISORY

A particular vendor-supplied memory chip can be affected at a low frequency rate by background levels of atmospheric ionizing cosmic radiation ("background cosmic radiation"). The anomaly can trigger a temporary loss of pacing function and permanent loss of defibrillation support.

#### FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY

In the unlikely event that a device chip is affected by background cosmic radiation, the high current drain condition will deplete the battery voltage rapidly. This can result in loss of output for a period up to approximately 48 hours. During this period, the patient would be without pacing or defibrillation therapy. After this initial period, the battery will reach a voltage level at which the device will enter its "Hardware Reset Mode." This safety mode is designed to preserve the device's ability to provide VVI pacing support. A device that has been reset to the Hardware Reset Mode will operate in the VVI mode at 60 ppm, but will not be capable of providing tachycardia detection or therapy. This will be noted by a warning message on the programmer screen upon device interrogation.

To assist in your patient care and following discussions with our independent Medical Advisory Board, Abbott recommends: If it is not already your current practice, physicians should perform routine device monitoring every three months for patients with the affected models listed above.

In determining whether additional patient management or follow up may be needed, consider the low failure rate for the anomaly and the unique medical needs and situation of each individual patient, including whether the patient is pacemaker dependent or at high risk for life-threatening arrhythmias.

If a patient's device is found in the Hardware Reset Mode, you should arrange for device replacement as soon as possible.You should continue to provide patients with the usual admonitions to keep scheduled appointments and to report all changes in symptoms.

Current Status (December 31, 2023): At the time of the advisory, there were 60 worldwide (38 U.S.) devices confirmed to have been affected by this issue. As of December 31, 2023 there were an additional 42 worldwide (28 U.S.) devices confirmed with this issue. This is within the 95% confidence interval prediction made at the time of the advisory. There have been no reports of serious injury or death.

### ICD AND CRT-D DEVICES

| MODEL IDENTIFICATION  | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|---|---|--|
| Epic <sup>°</sup> DR/HF (V-233, V-337, V-338),<br>Epic <sup>°</sup> Plus DR/VR/HF<br>(V-236, V-239, V-196,<br>V-239T, V-196T, V-350),<br>Atlas <sup>°</sup> DR (V-242),<br>and Atlas <sup>°</sup> Plus DR/VR/HF<br>(V-243, V-193, V-193C,<br>V-340, V-341, V-343) | <ul> <li>6/13/2005<br/>Class II</li> <li>Two anomalies have been identified:</li> <li>Due to a device software anomaly, it is possible that when the device's battery is nearing its elective replacement indicator (ERI), a charging cycle may be skipped.</li> <li>After a capacitor charge, if a rate responsive pacing mode (e.g., DDDR, VVIR, etc.) is programmed "On," this "noise" may be interpreted by the device's accelerometer (activity sensor) as physical activity, causing a temporary increase in the pacing rate that may persist after charging is completed.</li> </ul> | Two anomalies were discovered during routine product monitoring. <b>Neither of these anomalies presents a significant clinical risk</b> to your patients, and no clinical complications have been reported to Abbott. <b>Both are easily corrected</b> by performing a simple, automated software download to the device. This potentially affects approximately 30,000 implanted ICDs in the United States and includes the following model numbers:<br>Epic <sup>®</sup> DR/HF (V-233/V-337/V-338), Epic <sup>®</sup> Plus DR/VR/HF (V-236/V-239/V-196/V-239T/V-196T/V-350), Atlas <sup>®</sup> DR (V-242), and Atlas <sup>®</sup> Plus DR/VR/HF (V-243/V-193/V-193/V-193/V-193C/V-340/V-341/V-343). The first anomaly can occur when one of the affected devices attempts to deliver multiple shocks in rapid succession. Due to a device software anomaly, it is possible that when the device's battery is nearing its elective replacement indicator (ERI), a charging cycle may be skipped. If this were to occur, the first shock will always be delivered as programmed and, if needed, the next shock in the programmed shocks being available for delivery during that episode, but all delivered shocks would be at their programmed energy. This behavior was discovered as an incidental finding during analysis of one returned device that had |

delivered a large number of high-voltage shocks over a short time period.

A second anomaly is caused by electrical "noise" generated as a result of the charging of the device's high-voltage capacitors. After a capacitor charge, if a rate responsive pacing mode (e.g., DDDR, VVIR, etc.) is programmed "On," this "noise" may be interpreted by the device's accelerometer (activity sensor) as physical activity, causing a temporary increase in the pacing rate that may persist after charging is completed. The degree and duration of the rate increase will depend on a variety of factors, but the rate will never exceed the programmed Maximum Sensor Rate, and the device will gradually return to the appropriate rate. The anomalous behavior, which has been observed during the performance of manual capacitor maintenance, has been traced back to a component supplied to Abbott by one vendor; therefore, only the subset of the device models listed above that were manufactured with the affected component (device serial numbers below 141000 for any model) will exhibit this behavior.

Abbott has developed programmer software that will automatically detect the affected ICDs and download device software that will correct the "skipped charge" anomaly and mitigate the response to electrical noise. Once the upgrade is performed, the potential for a skipped charge will be eliminated. Additionally, once the upgrade is performed if a rate responsive mode is programmed "On," devices with serial numbers below 141000 will have their rate response functions suspended for the time period during which the electrical noise could be present (i.e., while significant residual voltage remains on the high- voltage capacitors); non-rate responsive pacing at the programmed base rate will continue to be provided as appropriate. This period during which rate response is suspended may last anywhere from a few minutes up to approximately 90 minutes. If rate responsive pacing was ongoing prior to charging, the pacing rate will gradually decrease to the base pacing rate according to the normal rate response recovery algorithm and will remain there while rate responsive pacing is suspended. The rate response behavior for devices with serial numbers greater than 141000 will not be affected by the software download.

The software download for potentially affected devices will automatically be initiated the next time the patient's device is interrogated with the v4.8.5 programmer software. Since a skipped charge is more likely to occur in devices that are closer to their elective replacement indicator (ERI), Abbott recommends that if the next patient follow-up is not scheduled to occur within the next six months that the patient be seen within this time period.

In addition, if devices are programmed to pacing settings that result in high current consumption, such as high output bi-ventricular pacing, consideration should be given to scheduling the patient for a follow-up visit within three months if it is not scheduled to occur within that time period. As always, Abbott defers to your clinical judgment on any decisions regarding the management of your patients.

Current Status (December 31, 2023): There have been no implanted devices confirmed to have been affected by this issue since the time of the advisory.

### ICD AND CRT-D DEVICES

| MODEL IDENTIFICATION                            | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|---|---|---|
| D.,   | 3/10/2005   |   |
| Epic" (V-197, V-235),<br>Epic"+ (V-196, V-236), | 3/10/2005<br>Class II   | During routine product evaluation, Abbott Quality Assurance identified that a software parameter that affects the sensitivity of the reed switch in the listed devices was being set to an incorrect value during manufacturing beginning in late November of last year. This has |
| Epic <sup>®</sup> HF CRT-D (V-338),             | Class II  | the effect of preventing these devices from entering the magnet mode to inhibit tachy therapy when an external magnet is applied. This  |
| Epic <sup>+</sup> + HF CRT-D (V-350),           | A software parameter that affects the sensitivity of the reed     | is a software controlled parameter that can be easily corrected via the programmer. All other bradycardia pacing and tachyarrhythmia  |
| Atlas <sup>+</sup> + (V-193, V-243).            | switch in the listed devices was being set to an incorrect value  | detection and therapy features are not affected in devices subject to this notification. Until the magnet sensitivity parameter is corrected y  |
| Atlas" + HF CRT-D (V-340),                      | which could prevent these devices from entering the magnet        | the programmer, tachy therapy may not be properly inhibited as is customary with placement of an external magnet, but can be inhibited  |
| or Atlas <sup>®</sup> (model V-242) ICDs        | mode to inhibit tachy therapy when an external magnet is applied. | by using the programmer to program the device to Defib Off, and then back On as needed.   |
|   |   | The affected devices were manufactured during a three month period beginning November 22, 2004. To date, there have been no field reports of any magnet mode failures, nor have there been any clinical complications reported associated with this issue. Magnet mode            |

reports of any magnet mode failures, nor have there been any clinical complications reported associated with this issue. Magnet mode application is usually used to inhibit tachycardia therapy such as when a patient is subjected to electrocautery during a surgical procedure. In order to remedy this situation, in addition to this notification, Abbott Sales Representatives and Field Clinical Engineers have been provided with a simple software tool that can be used to set, via the programmer, the reed switch's magnet sensitivity to the proper value. You may contact them to schedule this reprogramming at the patient's next scheduled follow-up visit or at your discretion.

Current Status (December 31, 2023): There have been no implanted devices confirmed to have been affected by this issue since the time of the advisory.

#### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION   | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|---|---|
| A subset of Assurity MRI" (Model PM2272), Endurity" (Model PM2162),<br>Endurity" Core (Model PM2152), Endurity MRI" (Model PM2172) implanted<br>outside of the United States | 10/10/23<br>Outside US Only<br>Abbott is informing clinicians of the potential for<br>device malfunction due to a manufacturing issue<br>which may affect a limited subset of 455 Assurity"<br>and Endurity" pacemakers implanted outside of the<br>United States.<br>The issue is caused by a manufacturing process<br>variation within a single piece of equipment<br>resulting in the potential for moisture ingress into<br>the pulse generator. This has been associated with<br>interrupted functionality such as loss of pacing,<br>reduced battery longevity, reverting to back-up<br>mode, loss of telemetry / communication, and/or<br>shortened duration between Elective Replacement<br>Indicator (ERI) and End of Service. | <ul> <li>Recognizing that each patient requires individual consideration by their physician, in consultation with Abbott CRM's Medical Advisory Board (MAB), Abbott provides the following guidelines:</li> <li>Consider generator replacement for patients with significant symptoms or who are at high risk of harm, if pacemaker malfunction were to occur.</li> <li>When possible, monitor patients using Merlin.net to benefit from compliance and alert monitoring, including Electronics Performance Indicator (EPI) between routine device checks. For patients currently enrolled in Merlin.net, remind them of the importance of using remote monitoring, which provides daily monitoring of ERI alerts and includes monitoring of the safety notification population by the EPI tool.</li> <li>Prompt replacement for devices that receive an EPI notification, or reach ERI/EOS, or experience one of the clinical impacts listed above, unless particular patient circumstances preclude this.</li> <li>The Electronics Performance Indicator (EPI) tool supplements information available on Merlin.net to identify abnormal electrical system behavior resulting from moisture ingress.</li> <li>Current Status (December 31, 2023): 13 devices of the 455 devices distributed (2.86%) have exhibited symptoms of moisture ingress through the pulse generator which may result in loss of functionality.</li> </ul> |

## MODEL IDENTIFICATION ADVISORY FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY

A subset of Assurity MRI" (Model PM2272), Endurity" (Model PM2162), Endurity" Core (Model PM2152), Endurity MRI" (Model PM2172), Zenex MRI" (Model PM2282) distributed and implanted outside of the United States

#### 7/20/2022 Outside US Only

Abbott informed customers of the potential for device malfunction which may affect a specific subset of serial numbers of Zenex<sup>™</sup>, Assurity<sup>™</sup>, and Endurity<sup>™</sup> pacemakers distributed and implanted outside of the United States. The issue is caused by a manufacturing laser surface preparation subprocess, unique to a single assembly line, which may not have properly prepared the device's metal housing potentially leading to abnormal device-to-header adhesion. This in turn may allow moisture ingress into the pulse generator header result in interrupted device functionality such as loss of pacing, reduced battery longevity, devices reverting to back-up mode, and/or loss of telemetry / communication. Recognizing that each patient requires individual consideration by their physician, in consultation with Abbott CRM's Medical Advisory Board (MAB), Abbott provides the following guidelines:

- · Prophylactic generator replacement is NOT generally recommended.
- When possible, monitor patients using Merlin.net to benefit from compliance and alert monitoring, including Electronics
  Performance Indicator (EPI), between routine device checks. For patients currently enrolled in Merlin.net, remind them
  of the importance of using remote monitoring, which provides daily monitoring of ERI alerts and will now also include
  monitoring of the safety notification population by the EPI tool. The EPI tool supplements information available on Merlin.
  net to identify abnormal electrical system performance resulting from moisture ingress.
- Consider individualized therapy up to and including generator replacement for patients who are at high risk if interruption of pacemaker function were to occur, potentially considering
- Adequacy of intrinsic / underlying rhythm
- Individual patient characteristics and circumstance
- Ability to adequately monitor patients based on risk
- Prompt replacement for devices that receive an EPI notification, reach ERI, or experience one of the clinical impacts listed above, unless particular patient circumstances preclude this.

To determine if a device implanted outside of the United States is subject to this advisory, please go to the following website: https://www.cardiovascular.abbott/int/en/hcp/product-advisories/laser-adhesion-safety-lookup.html

Current Status (December 31, 2023): 1001 devices of the 81,925 distributed (1.22%) have exhibited symptoms of moisture ingress into the pulse generator which may result in loss of functionality.

### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION  | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|---|--|---|
| GLOBAL MODELS<br>Merlin <sup>™</sup> Patient Care System (PCS) Software Model 3330, Merlin <sup>™</sup> 2 PCS<br>Software Model MER3400, and Merlin.net <sup>™</sup> MN5000 Remote Monitoring<br>Application when used with certain pacemakers: | 6/16/2022<br>Class II<br>Abbott is notifying customers of the potential<br>for Merlin <sup>®</sup> PCS and Merlin <sup>®</sup> 2 PCS and Merlin.   | Abbott has developed updated software for the Merlin <sup>™</sup> PCS and Merlin <sup>™</sup> 2 PCS Programmer to improve accuracy of predicted battery longevity, which will correct the longevity overestimation displayed during device interrogation. Abbott representatives will assist in updating programmer software.   |
| Accent", Accent MRI", Assurity", Assurity MRI", Endurity", Endurity MRI",<br>Nuance", Zenex MRI", and Zenus MRI" IPGs and Allure", Allure Quadra",<br>Quadra Allure", Anthem", Relieve", Relieve Quadra", and Quadra Relieve"<br>CRT-Ps         | net remote monitoring software applications to<br>display overestimated predicted battery longevity<br>for certain pacemakers. Pacemaker/battery<br>functionality, therapy delivery, and longevity | Merlin <sup>™</sup> Patient Care System (PCS) Software Model 3330 version 26.0.1 rev 2 (United States), 26.0.4 rev 1 (Canada), 20.1.5 rev 5 (China), or 25.8.# rev 1 (all other countries) or later<br>Merlin <sup>™</sup> 2 Patient Care System (PCS) Software Model MER3400 version 1.8.2 rev 1 (Europe) or later   |
|   | remain normal and within specifications. Voltage<br>measurements and Elective Replacement<br>Indicator (ERI), which is based on direct voltage   | Additionally, Merlin.net was updated globally in June 2022 to improve accuracy of predicted battery longevity displayed on remote transmissions.  |
|   | measurement, remain accurate.  | Abbott provides the following patient management guidance:<br>Prophylactic device replacement is not recommended, as device functionality, actual longevity, and ERI indicator are not<br>impacted (device functionality remains normal and within specifications).<br>Routine follow-up should remain as per local standard of care and clinical protocol, and ERI should continue to serve as an<br>indicator of the need for device replacement scheduling.<br>Please direct any questions about device longevity to Abbott Technical Support. |

Upon programmer software / remote monitoring software update, the improved longevity estimate will be displayed at the patient's next clinic visit or wireless transmission. Please note that until programmers are updated, a difference in longevity estimates between programmers and remote monitoring (Merlin.net) may be observed.

Current Status (December 31, 2023): 984 complaints (0.03%) regarding longevity overestimates were received out of an estimated 2,900,000 devices worldwide.

### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION   | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|---|---|
| A subset of Assurity™ (Models PM1240,<br>PM2240), Assurity™ + (Model PM2260),<br>Assurity MRI™ (Models PM1272,   | 3/15/2021<br>Class I  | Recognizing that each patient requires individual consideration by their physician, in consultation with Abbott CRM's Medical Advisory<br>Board (MAB), Abbott provides the following guidelines:  |
| Assurity MRT (Models PM1160,<br>PM2272), Endurity''' (Models PM1160,<br>PM2160), Endurity''' Core (Models<br>PM1152, PM2152), Endurity MRT'''<br>(Models PM1172, PM2172) | Abbott informed customers of an issue which may affect a subset<br>of Assurity" and Endurity" pacemakers. The issue is caused by<br>intermittent incomplete mixing of epoxy during manufacture,<br>which may introduce a risk of moisture ingress and interruption of<br>device functionality.<br>Abbott provided a follow up safety notification on October 5, 2021<br>to communicate additional units in the advisory and the availability<br>of a new Electronics Performance Indicator (EPI) tool to assist in<br>patient management for those pacemakers monitored with Merlin.<br>net. The EPI tool supplements information available on Merlin.net<br>to identify abnormal electrical system performance resulting from<br>moisture ingress. | <ul> <li>Prophylactic generator replacement is not recommended. This is due to the very low rate of occurrence, and the low potential for patient harm when replacement is performed following an EPI notification or an ERI/EOS alert.</li> <li>Routine follow-up should remain as per standard of care and clinical protocol. Review device function including measured battery voltage or any unexpected change in battery consumption. Also, evaluate the potential for risk in patients who are pacemaker dependent and are unable to be reliably followed using remote monitoring.</li> <li>Prompt replacement for devices that receive an EPI notification, reach ERI/EOS, or experience one of these clinical impacts (loss of telemetry, reduced battery longevity, loss of pacing, or reduced ERI to EOS duration), commensurate with the patient's underlying clinical condition.</li> <li>When possible, monitor patients using Merlin.net to benefit from alert monitoring between routine device checks. For patients currently enrolled in Merlin.net, remind them of the importance of using remote monitoring, which provides daily monitoring of ERI and EOS alerts and includes monitoring of the safety notification population by the EPI tool.</li> <li>Current Status (December 31, 2023): 783 devices of the 337,990 worldwide (0.23%) have exhibited moisture ingress into the pulse generator, resulting in a loss of functionality.</li> </ul> |
|  |   | To determine if a device serial number is subject to this advisory, please go to the following website:<br><u>https://www.cardiovascular.abbott/us/en/hcp/product-advisories/pacemaker-lookup.html.</u>   |

### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION                                     | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|--|---|--|
| Nanostim''' Leadless Cardiac Pacemaker<br>(Model S1DLCP) | 11/17/2017<br>Outside US and US Investigational Device Exemption (IDE) only   | The following patient management recommendations have been developed in consultation with our Leadless Steering Committee membe after discussions detailing the occurrences and the potential clinical impact associated with detached docking buttons:  |
|  | Abbott was made aware of docking button detachments that<br>have occurred following implant or during attempted retrieval<br>of Nanostim <sup>®</sup> Leadless Cardiac Pacemaker (LCP) devices. The<br>docking button is a small component (3.6 mm diameter) and is<br>connected to the end of the LCP by two cables. This component<br>is necessary for docking the LCP to the retrieval catheter during a<br>retrieval procedure. | <ul> <li>Continue following patients as per recommendations of the October 2016 Battery Malfunction for Nanostim<sup>11</sup> LCP advisory.</li> <li>Retrieval of an implanted Nanostim<sup>11</sup> LCP with an intact docking button confirmed radiographically remains an option, but should only be considered if the procedure can be performed as per the specifications contained in the instructions for use.</li> <li>If a detached docking button has been identified, Nanostim<sup>11</sup> LCP retrieval is not recommended. In the rare situation where retrieval is the only management option, Abbott recommends the procedure be performed by physicians experienced in foreign body removal, including using the femoral approach. Please contact the Abbott Clinical Study Team for further guidance.</li> <li>Prophylactic imaging for the sole purpose of determining if the docking button is intact is not recommended due to the effects of radiatio and lack of any clear clinical actions based on results of imaging alone. If the option of Nanostim<sup>11</sup> LCP retrieval is being considered, fina imaging decisions should take into account the individual patient circumstances and preferences.</li> </ul> |

If a detached docking button is identified, continue to follow the patient as per the Clinical Study Protocol and report the incident to Abbott and relevant Competent Authority, as appropriate.

Current Status: (December 31, 2023): At the time of advisory, three (0.21%) of 1,423 devices implanted worldwide have been reported to have a detached docking button. As of December 31, 2023, a total of 8 have been reported and the rate is now at 0.6% (8/1,423). There have been no reports of serious injury or death.

### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION   | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|--|---|
|  |  |   |
| Global Models<br>Accent MRI™ (Model PM1224)  | 8/28/2017<br>Class II  | Patient Management Recommendations  |
| Accent™ DR RF (Models PM2210,  |  | Prophylactic replacement of affected devices is not recommended.  |
| PM2212)<br>Accent MRI" (Models PM2218,<br>PM2224)<br>Accent" SR RF<br>(Model (PM1210)      | New pacemaker firmware was developed to further mitigate the<br>risk of unauthorized access to our pacemakers that utilize radio<br>frequency (RF) communications. The firmware update provides<br>an additional layer of security against unauthorized access to<br>these devices that further reduces the potential for a successful | While not intended to serve as a substitute for your professional judgment as to whether the firmware update is advisable for a particular patient, we, along with our Cyber Security Medical Advisory Board, recommend the following:  |
| Accent''' ST DR RF<br>(Models PM2216, PM2222)<br>Accent''' ST MRI DR RF (Model             | cybersecurity attack.  | <ul> <li>Discuss the risks and benefits of the cybersecurity vulnerabilities and associated firmware update with your patients at the next regularly<br/>scheduled visit. As part of this discussion, it is important to consider patient specific issues such as pacemaker dependence, age of device,<br/>and patient preference and provide them with the "Patient Communication".</li> </ul> |
| PM2226)<br>Accent™ ST MRI SR RF (Model   |  | <ul> <li>Determine if the update is appropriate given the risk of update for the patient. If deemed appropriate, install this firmware update<br/>following the instructions on the programmer (and listed below).</li> </ul>   |
| PM1226)<br>Accent <sup>™</sup> ST SR RF (Model PM1222)                                     |  | <ul> <li>For pacing dependent patients, consider performing the cybersecurity firmware update in a facility where temporary pacing and pacemaker generator change are readily available, due to the very small estimated risk of firmware update malfunction.</li> </ul>  |
| Allure Quadra <sup>™</sup> RF CRT-P<br>(Model PM3242)                                      |  | Current Status (December 31, 2023): We have received no reports of device compromise related to the cybersecurity vulnerabilities in the  |
| Allure™ RF CRT-P (Model PM3222)<br>Anthem™ RF CRT-P  |  | implanted devices impacted by this communication.   |
| (Models PM3210, PM3212)<br>Assurity <sup>™</sup> + DR RF (Model PM2260)                    |  | If you have any questions about the cybersecurity firmware update you can contact your Abbott representative or our dedicated customer technical support hotline at 1-800-722-3774 (U.S.).  |
| Assurity <sup>™</sup> + SR RF (Model PM1260)<br>Assurity <sup>™</sup> DR RF (Model PM2240) |  | Additional materials, including a Patient Communication, can be found on Cardiovascular Product Advisories   Abbott.  |
| Assurity MRI <sup>™</sup> (Model PM2272)<br>Assurity <sup>™</sup> SR RF (Model PM1240)     |  |   |
| Assurity MRI™ (Model PM1272)<br>Nuance™ DR RF (Model PM2214)                               |  |   |
| Nuance™ MRI DR RF (Model PM2230)<br>Nuance™ MRI SR RF (Model PM1230)                       |  |   |
| Nuance™ SR RF (Model PM1214)<br>Nuance™ ST DR RF (Model PM2228)                            |  |   |
| Nuance™ ST SR RF (Model PM1228)<br>Quadra Allure MP™ (Model PM3562)                        |  |   |
| Quadra Allure MP™ RF CRT-P<br>(Model PM3262)   |  |   |
| Quadra Allure™ (Model PM3542)<br>Quadra Relieve MP™ (Model PM3564)                         |  |   |
| Quadra Relieve MP™ RF CRT-P<br>(Model PM3264)  |  |   |
| Quadra Relieve™ (Model PM3544)<br>Quadra Relieve™ RF CRT-P                                 |  |   |
| (Model PM3244)<br>Relieve™ RF CRT-P (Model PM3224)   |  |   |
| Zenex <sup>™</sup> + DR RF (Model PM2270)<br>Zenex <sup>™</sup> + SR RF (Model PM1270)     |  |   |
| Zenex™ DR RF (Model PM2250)<br>Zenex™ DR RF MRI (Model PM2282)                             |  |   |

Zenex<sup>158</sup> SR RF (Model PM1250) Zenex<sup>158</sup> SR RF MRI (Model PM1282)

### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION                                   | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|--|--|--|
| Nanostim` Leadless Cardiac Pacemaker<br>(Model SIDLCP) | 10/28/2016<br>Outside US and US Investigational Device Exemption (IDE)<br>only<br>Abbott was made aware of seven (7) reports worldwide of lost<br>telemetry and pacing output as a result of a battery malfunction                                     | <ul> <li>In consultation with our Leadless II IDE and our Leadless Postmarket Study Steering Committees we recommend the following:</li> <li>Do not implant unused devices and return them to Abbott.</li> <li>Do not rely on the RRT indicator to identify a battery that may potentially malfunction. However, if the RRT indicator does trigger, replace the device per standard practice.</li> <li>Do not perform AV Node ablation in patients with an existing Nanostim LCP without another functional pacing system implanted.</li> </ul>  |
|  | associated with Nanostim Leadless Cardiac Pacemaker<br>(LCP) devices. Due to these events, we have decided to pause<br>Nanostim LCP implants in the Leadless II IDE/CAP study.   | <ul> <li>For patients who have not previously been documented to be pacemaker dependent, re-assess patients in-office for pacemaker dependence.</li> <li>For non-pacemaker dependent patients with devices of implant duration ≥ 24 months, more intensive follow-up and monitoring is</li> </ul>  |
|  | Analysis of returned units has found decreased battery capacity<br>due to reduced electrolyte, resulting in high internal battery<br>resistance. This disrupts the required capacity for proper device<br>function and reduces device longevity.       | <ul> <li>recommended.</li> <li>Implant Duration ≥ 24 months: Request follow-up as soon as possible to assess the status of the battery. Then, monthly follow-up is recommended through in-office visits or a reliable method of tele-monitoring of heart rate and electrocardiogram.</li> <li>Implant Duration &lt; 24 months: Continue follow up per protocol.</li> <li>For pacemaker dependent patients, device replacement is recommended (priority should be for patients with implants of longer</li> </ul>   |
|  | Referring to a previously measured battery voltage may not   | duration).<br>• Identify and treat patients as quickly as possible.  |
|  | provide an indication of continued normal operation as battery<br>voltage remains normal under these circumstances. The<br>Recommended Replacement Time (RRT) indicator will not be<br>triggered as the battery voltage will remain above RRT in these | <ul> <li>Interrogate the device and identify the ability to communicate with the device and the patient's underlying rhythm.</li> <li>Determine the strategy for management, including a decision whether to retrieve or abandon the Nanostim LCP, based on the individual patient's clinical history and overall medical condition. Use a temporary pacemaker for backup pacing while replacing the Nanostim device where clinically indicated.</li> </ul>  |
|  | devices. Battery malfunction may be indicated with a loss of<br>telemetry/communication with the implanted device and/or<br>loss of pacing and magnet mode operation.  | <ul> <li>If the device is to be retrieved, use the Nanostim retrieval system as per the standard procedure described in the instructions for use.</li> <li>If the device will not be retrieved or if retrieval was attempted and not possible, implant a new pacemaker lead (bipolar) at a distance from the existing LCP to prevent long-term mechanical and electrical interactions. Confirm the location using multiple radiographic views.</li> <li>After implantation of the new pacing system, if it is possible to communicate with the LCP, turn "OFF" the abandoned LCP system. If</li> </ul> |
|  |  | the LCP device cannot be turned "OFF", consider programming the newly implanted system a minimum of 5 bpm faster than the LCI<br>in order to inhibit the Nanostim device.  |

**Current Status: (December 31, 2023):** At the time of advisory, seven (7) reported devices (0.5%) of 1,423 implanted devices worldwide have exhibited battery malfunction at 29-37 months after implant. As of December 31, 2023, there were additional reports and the rate is now 26.8%. There have been no reports of serious injury or death.

### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION   | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|---|---|
| Accent <sup>~</sup> SR (Model PM1110)<br>Accent <sup>~</sup> DR (Model PM2112) | 12/7/2012<br>Outside US Only<br>Due to an incorrect software setting, a specific subset of<br>the Accent <sup>®</sup> SR and Accent <sup>®</sup> DR devices shipped to certain<br>countries outside the US will not provide a change in the sensor<br>driven (rate responsive) pacing rates in response to patient<br>physical activity. All other programmed parameters, features<br>and functions operate as designed, e.g. an Accent DR device | <ul> <li>Abbott makes the following recommendations:</li> <li>Identify affected patient</li> <li>Review your patient's clinical indications for pacing and determine the clinical need for rate responsive, sensor driven pacing.</li> <li>In the event that a patient requires rate responsive sensor driven activity pacing and exhibits clinical symptoms due to the lack of increased pacing rates with exercise, please contact your local Sales Representative or our Technical Support</li> <li>Continue to follow patients on their standard follow-up schedule.</li> </ul> |
|  | programmed to DDDR will appropriately track atrial activity<br>and properly function in the DDD mode. A non-invasive<br>programmer software solution that will correct the issue in all<br>affected, implanted devices will be available once regulatory<br>approval has been completed.  | approximately 6,000 affected devices were implanted. There have been no additional devices confirmed to have this issue since the time of<br>the software release in April 2013.  |

| MODEL IDENTIFICATION  | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|---|--|--|
|   |  |  |
| Accent <sup>-</sup> DR (Models PM2110, PM2112,<br>PM2210, PM2212),<br>Anthem <sup>-</sup> CRT-P (Models PM3110, | 9/22/2011<br>Class II  | In order to prevent a false reading, a new Merlin <sup>®</sup> Patient Care System programmer software version is available. When used to interrogate<br>an Accent DR or Anthem CRT-P pacemaker this software will eliminate the potential for this anomaly to occur. With the new software, the<br>programmer will automatically activate circuitry in the pacemaker during the interrogation process to ensure that any residual charge on |
| PM3112, PM3210, PM3212)   | A small amount of electrical charge may accumulate within<br>an internal capacitor which results in a low or varying pacing<br>lead impedance (PLI) value during the automatic daily<br>measurements. An out of range lead impedance measurement | the capacitor is discharged prior to performing the daily PLI measurement. The onetime upgrade is performed automatically on affected devices and will not change the operation of the implanted device. Your Abbott Sales Representative will assist you in loading the new programmer software onto your Merlin programmer.  |
|   | may result in a patient notifier alert, a remote monitoring<br>Merlin.net Patient Care Network alert, or a prior alert message<br>to be displayed on the programmer screen at the next in-clinic   | If you are following any patients implanted with Accent DR pacemakers or Anthem CRT-P devices, Abbott makes the following recommendations, which are consistent with standard best practices:  |
|   | follow-up.   | • Ensure that the new programmer software version is loaded on your programmers as soon as practical.  |
|   |  | <ul> <li>Continue to follow patients on their standard follow-up schedule. Since the likelihood of the low lead impedance measurement is low, the<br/>device interrogation can be performed at the patient's next regular scheduled follow-up visit.</li> </ul>  |
|   |  | • In the event that a patient receives a low lead impedance alert before the new programmer software has been loaded, we suggest that you  |

In the event that a patient receives a low lead impedance alert before the new programmer software has been loaded, we suggest that you
evaluate the device as you normally would for any such instance. If the daily pacing lead impedance value is out-of range, re-interrogate
the device's measured data and look at the lead impedance values. This "in-clinic" measurement is not affected by the aforementioned
capacitor charge build-up and will provide an accurate lead impedance measurement.

Current Status (December 31, 2023): Worldwide, 13 Accent DR (<0.01%) and 225 Anthem CRT-P (1.6%) devices have exhibited this diagnostic anomaly.

### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION   | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|--|--|--|
| Identity <sup>~</sup> SR (Model 5172)<br>Identity <sup>~</sup> DR (Model 5370)<br>Identity <sup>~</sup> XL DR (Model 5376) | 10/12/2006<br>Class II<br>A programmer software anomaly can lead to incorrect reporting<br>of battery voltage, expected battery longevity and elective   | No follow-up is recommended at the time of advisory. Devices do not need to be replaced. A programmer software update, pending FDA an<br>other regulatory agency approval, will mitigate this anomaly when the device is interrogated. Before the programmer software update is<br>available, any subsequent measured data update that is performed during the session would be valid and the device operating magnet rate<br>would be up-to-date. After the programmer software update is available, any device affected by this issue will be automatically corrected via<br>the normal interrogation process. |
|  | replacement indicator (ERI) status in Abbott<br>Identity <sup>*</sup> pacemakers. The anomaly does not affect the device's<br>actual battery voltage, longevity or functionality, but could<br>result in inaccurate reporting of the status of these measured<br>data parameters. This software anomaly can appear in the<br>Abbott Identity <sup>*</sup> family of pacemakers when programmed by<br>the Abbott APS <sup>*</sup> III Model 3500/3510 or Merlin <sup>*</sup> Patient Care<br>System Model 3650 programmers. | Current Status (December 31, 2023): At the time of the advisory, there were 53 worldwide (50 U.S.) devices confirmed to have been affected<br>by this issue. As of December 31, 2023 there were an additional 78 worldwide (65 U.S.) devices confirmed with this issue, all prior to the<br>distribution of the software fix.  |

### LEFT-HEART LEADS

| MODEL IDENTIFICATION   | ADVISORY  | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|---|---|
| QuickSite" (Models 1056T, 1058T)<br>QuickFlex" (Models 1156T, 1158T) | <ul> <li>4/3/2012<br/>Class II</li> <li>Abrasion of the silicone insulation in the distal portion of<br/>QuickSite and QuickFlex leads has led to visual observations of<br/>externalized conductors.</li> <li>There have been no reports of death or serious injury associated<br/>with the externalized conductors; likewise there have been<br/>no electrical dysfunctions attributable to the externalized<br/>conductors.</li> <li>The reported rate of externalized conductors in the QuickSite<br/>and QuickFlex leads is 0.023%, based on 39 confirmed cases<br/>of externalized conductors in a population of approximately<br/>82,000 QuickSite and 89,000 QuickFlex leads sold worldwide.</li> <li>This issue is under-detected because these cases are visual<br/>observations without any signs of electrical dysfunction and<br/>fluoroscopic/sray imaging is not routine. Based on a review of<br/>returned leads and available fluoroscopic and x-ray images of<br/>patients with QuickSite and QuickFlex leads (1,219 leads), it is<br/>estimated that the incidence of conductor externalization on<br/>these leads may be 3% to 4%.</li> </ul> | Abbott and its Medical Advisory Board recommend that physicians continue to monitor their patient's implanted system at regularly scheduled intervals with attention paid to diagnostic information related to LV pacing performance, in particular LV lead impedance and capture thresholds. Programming of alerts that monitor lead impedance changes outside of the nominal range and enabling the patient notifier should be considered. A special X-ray or fluoroscopic imaging is not recommended for LV CRT leads with normal electrical function. CRT pacing functionality should be evaluated during routine device checks and only leads exhibiting electrical anomalies that cannot be reprogrammed to deliver effective CRT pacing should be considered for replacement.  Current Status (December 31, 2023): At the time of the advisory there was a worldwide reported externalized conductor rate of 0.023% in QuickSite and QuickFlex leads. As of December 31, 2023, the cumulative worldwide reported externalized conductor rate (based on both returns and non-returns) for QuickSite and QuickFlex leads remained stable at 0.28%. |

### **DEFIBRILLATION LEADS**

| MODEL IDENTIFICATION   | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|--|---|
| Optisure <sup>°</sup> Defibrillation Lead (Models<br>LDA220, LDA220Q, LDA230Q, | 11/3/2015<br>Class I   | Abbott recommends the following actions depending on the device the affected patients have implanted. According to our records the vast majority of patients with the subject leads have devices with the DynamicTx <sup>-</sup> feature that provides additional protection to help ensure   |
| LDP220Q)   | 010551   | happing of parents with the subject tasks index devices with the Dynamic FX reactive that provides additional protection to help ensure<br>therapy delivery in the case of a compromised lead.  |
| 1012200  | A limited number of dual coil Optisure defibrillation leads may  |   |
|  | have been compromised during the manufacturing process.  | For patients implanted with a potentially-impacted Optisure lead connected to a device WITH DynamicTx <sup>*</sup> technology, we recommend:  |
|  | A trim technique to remove excess medical adhesive around<br>the SVC shock coil may have introduced damage to the lead's             | Review the Patient Records:   |
|  | insulation.  | I. Ensure DynamicTx <sup>*</sup> technology is programmed "On"  |
|  | institution.   | 2. Enroll these patients in our Merlin.net <sup>®</sup> Patient Care Network  |
|  | A thorough investigation has determined the probability of   | <ol> <li>Almonitor patients as normal, with no additional testing or follow-up needed.</li> </ol>   |
|  | a lead malfunction as a result of this trim technique is very  |   |
|  | low. A total of 447 leads subjected to the trim technique were   | For patients implanted with a potentially-impacted Optisure lead connected to a device WITHOUT DynamicTx* technology we   |
|  | distributed globally. Of those, 278 were implanted in the United   | recommend:  |
|  | States. Abbott is not aware of any adverse clinical events related<br>to this matter. Furthermore, an analysis of patients implanted | <ol> <li>Enroll these patients in our Merlin.net<sup>-</sup> Patient Care Network</li> <li>Where clinically appropriate, consider turning off the SVC coil (select RV-to-Can vector)</li> </ol>   |
|  | with the subject leads that are being actively monitored via   | <ol> <li>Whete chine any appropriate, consider terming on the SYC Consecutive V-to-Can vector)</li> <li>If dual coil shocking configuration is desired, consider performing a high voltage test using maximum energy.</li> </ol>  |
|  | Merlin.net <sup>®</sup> Patient Care Network has shown that none of these  | a. If shock delivery is normal - no additional testing is required  |
|  | patients have experienced any recorded electrical issues.  | b. If shock delivery identifies a short circuit – consider lead replacement   |
|  |  | • DynamicTx <sup>-</sup> technology automatically adjusts shock configurations to ensure the delivery of high-voltage therapy even if an electrical short were to occur.  |
|  |  | We recommend at your patient's next follow-up visit an Abbott representative be present to program an alert message into the implanted device. This will provide clinicians following patients with impacted subject lead an alert message on the Merlin <sup>¬</sup> Programmer upon interrogation, ensuring that future caregivers assessing the diagnostics of these devices receive the latest information and be made aware of this corrective action. We believe such actions will further the ability of our clinician partners to most optimally manage the care of their |

patients.

### **DEFIBRILLATION LEADS**

| MODEL IDENTIFICATION  | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|---|--|--|
|   |  |  |
| Riata <sup>-</sup> Defibrillation Lead (Models<br>1570, 1571, 1572, 1580, 1581, 1582)<br>Riata <sup>-</sup> i Defibrillation Lead (Models | 11/28/2011<br>Class I  | Abbott and its Medical Advisory Board (MAB) make the following recommendations, which are consistent with standard best practices and our December 2010 product communication.   |
| 1560, 1561, 1562, 1590, 1591, 1592)<br>Riata" ST Defibrillation Lead (Models<br>7000, 7001, 7002, 7010, 7011, 7040,<br>7041, 7042)        | Externalized conductors occur when an abrasion results in<br>an outer insulation breach, allowing the normally contained<br>conductors to become visible outside the lead body. Even though<br>causality cannot be established, when externalized conductors | Whenever possible, monitor devices and leads remotely and advise your patients of the importance of contacting you should they experience any adverse events. Abbott <sup>¬</sup> remote monitoring features can be used to detect electrical changes early that may be associated with externalized conductors.   |
|   | are accompanied by reports of electrical malfunction, these<br>reports typically include pacing or defibrillation impedance<br>changes, inappropriate therapy, noise and oversensing, and<br>pacing threshold rise. Externalized conductors have not been    | Continue to monitor your patient's implanted system at regularly scheduled intervals with particular attention to diagnostic information related to defibrillation lead performance. The recommendations for frequency of in-person are a follow-up period of every 3 - 6 months for ICD/CRT-D devices per the HRS/EHRA consensus.   |
|   | observed in Riata ST Optim" and Durata" models due to<br>the presence of an abrasion resistant outer Optim" lead<br>insulation sheath.   | Review lead measurements including pacing and high voltage lead impedances per your standard follow-up procedures in particular looking for significant changes from the patient's previous follow-up visits.  |
|   |  | If there is evidence of a lead electrical failure, manage the patient per standard practice. <sup>1</sup> This may include x-ray or fluoroscopy. Additional testing, if necessary, could include provocative methods such as shoulder and arm movements and deep respiration while looking at the surface ECG and intracardiac electrograms with the programmer, which may reveal an intermittent problem associated with any source of lead electrical failure if one exists. |

The value of routine x-ray or fluoroscopy for patients with leads having no electrical abnormalities is unknown at this time and is therefore not recommended.

In addition, prophylactic explant or replacement of a lead without electrical dysfunction is not recommended.

Currently there is no expert consensus regarding whether patients undergoing pulse generator replacement should undergo fluoroscopy or lead replacement should an externalized conductor without electrical anomalies be present. This is, in part, because the risk versus benefit of replacing a lead in such a patient may vary from patient to patient and center to center. Clinical decisions in this setting should be individualized based on specific patient conditions and circumstances.

Based on input from the MAB, Abbott continues to monitor post-market surveillance data to evaluate further the incidence of externalized conductors and the long-term performance of leads with externalized conductors that do not exhibit electrical abnormalities.

Current Status (February 29, 2024): At the time of the advisory there was a worldwide reported all-cause insulation abrasion rate of 0.63% for Riata silicone leads. The worldwide reported rate for the subcategory of externalized conductors in Riata silicone leads was 0.10%. As of February 29, 2024, there have been additional reports. The worldwide reported rates of all-cause abrasion and externalized conductors for Riata silicone leads was 4.96% and 3.01% respectively. The latest information related to the silicone Riata lead advisory, including the final results of the Cardiac Lead Assessment Study (CLAS) and references to independent studies of Riata lead performance, can be obtained at <a href="https://www.cardiovascular.abbott/us/en/hep/product-advisories/riata.html">https://www.cardiovascular.abbott/us/en/hep/product-advisories/riata.html</a>.

1 Epstein, A.E. "Troubleshooting of Implantable Cardioverter-Defibrillators." *Clinical Cardiac Pacing, Defibrillation, and Resynchronization Therapy, 4th ed.* Eds. Ellenbogen, K.A., Kay G.N., Lau, C-P., Wilkoff, B.L. Philadelphia: Elsevier, 2011. 889-910.

### **DEFIBRILLATION LEADS**

| MODEL IDENTIFICATION  | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|---|--|---|
|   |  |   |
| Riata <sup>~</sup> Defibrillation Lead (Models<br>1570, 1571, 1572, 1580, 1581, 1582)<br>Riata <sup>~</sup> i Defibrillation Lead (Models | 12/15/2010<br>Outside US Only                                    | Continue to monitor your patient's implanted system at regularly scheduled intervals with particular attention to diagnostic information<br>related to defibrillation lead performance. The recommendations for frequency of in-person or remote monitoring are a follow-up period of<br>every 3 - 6 months for ICD/CRT-D devices per the HRS/EHRA consensus. |
| 1560, 1561, 1562, 1590, 1591, 1592)   | Abrasion of silicone defibrillation leads is acknowledged within |   |
| Riata <sup>®</sup> ST Defibrillation Lead (Models   | the clinical community as a well known clinical risk and is      | Review lead measurements including pacing and high voltage lead impedances per your standard follow-up procedure in particular looking  |
| 7000, 7001, 7002, 7010, 7011, 7040,   | documented in the literature as the number one cause of lead     | for significant changes from the patient's previous follow-up visits.   |
| 7041, 7042)   | failure across the industry with reported failure rates ranging  |   |
|   | from 3 to 10%. After more than 9 years of clinical use and       | If there is evidence of a lead electrical failure, manage the patient per standard practice. <sup>1</sup> This may include x-ray or fluoroscopy. Additional   |

approximately 227,000 implants, silicone insulated Riata<sup>¬</sup>, Riata<sup>¬</sup>

i, and Riata" ST defibrillation leads have exhibited an insulation

abrasion rate of 0.47% (inclusive of confirmed returns and

in implanted pacing and defibrillation systems, including physiological stresses placed on the lead due to patient anatomy,

implant orientation, and mechanical stresses applied from

complaints/observations with no associated return). There are several factors that can contribute to lead abrasion

concomitant devices in the body.

If there is evidence of a lead electrical failure, manage the patient per standard practice.<sup>1</sup> This may include x-ray or fluoroscopy. Additional testing if necessary could include provocative methods such as shoulder and arm movements and deep respiration while looking at the surface ECG and intracardiac electrograms with the programmer, which may reveal an intermittent problem if one exists.

Consider remote monitoring and advise your patients of the importance of contacting you if they experience any adverse events.

Current Status (February 29, 2024): At the time of the advisory there was a worldwide insulation abrasion rate of 0.47% for Riata silicone leads. As of February 29, 2024, there have been additional reports and the worldwide reported insulation abrasion rate is 4.96%.

1 Epstein, A.E. "Troubleshooting of Implantable Cardioverter-Defibrillators." *Clinical Cardiac Pacing, Defibrillation, and Resynchronization Therapy, 4th ed.* Eds. Ellenbogen, K.A., Kay G.N., Lau, C-P., Wilkoff, B.L. Philadelphia: Elsevier, 2011. 889-910.

### ICM DEVICES

| MODEL IDENTIFICATION            | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY  |
|---------------------------------|--|--|
| Confirm Rx'''<br>(Model DM3500) | 5/18/2018<br>Class II<br>US Only<br>Abbott advised physicians that exposure to sub-freezing<br>temperatures during our supply chain process caused a<br>transient battery voltage drop for a small number of<br>Confirm Rx <sup>*</sup> Model DM3500 Insertable Cardiac Monitoring<br>(ICM) devices. | <ul> <li>Prophylactic replacement of affected devices is not recommended.</li> <li>To correct implanted devices or detect affected units before implant, it is required to update to Merlin" programmer software version 24.2.x or later. If you do not yet have this software version, you may contact your Abbott representative to facilitate in upgrading your programmer(s).</li> <li>Recommendations for Patients with Implanted Devices</li> <li>Abbott reviewed data in Merlin.net" Patient Care Network to identify implanted devices with an incorrect low battery indicator. Patients confirmed to be impacted can be found in the enclosed Patient List. Additionally, implanted patients who could not be assessed for this condition through data available in Merlin.net" PCN are included in this list. We recommend performing the following actions at the patients next regularly scheduled visit:</li> <li>For patients confirmed to be impacted, contact Abbott Technical Services to assist in correcting the battery indicator.</li> <li>For Confirm Rx" device patients requiring further assessment to determine potential impact, review post-implant programmer printouts or session records to determine whether a low battery indicator is present.</li> <li>If a low battery indicator is observed, contact Abbott Technical Services to assist in confirmation and correction of the battery indicator display.</li> <li>Mecommendations for Devices not yet Implanted</li> <li>Merlin" programmer software version 24.2.x or later will detect this incorrect low battery indicator condition. Interrogate all new Confirm Rx devices prior to implant. If the notification pop-up is displayed, follow the on-screen instructions to proceed with contacting Abbott Technical Services and alternate device for the implant.</li> <li>Current Status (December 31, 2023): At the time of the advisory, 0.41% devices distributed worldwide have been reported to have experienced incorrect display of low battery indicator. As of June 30, 2023 there have been no additional reports of lo</li></ul> |

If you have any questions about this communication or the patient management recommendations, please contact your Abbott representative or Abbott Technical Support at 1-800-722-3774 (U.S.). Additional materials, can be found on <u>Cardiovascular Product</u> <u>Advisories | Abbott.</u>

### ICM DEVICES

| MODEL IDENTIFICATION                                    | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|---|--|---|
| SJM Confirm <sup>-</sup> ICM<br>(Models DM2100, DM2102) | 3/11/2011<br>Class II<br>US and Germany  | If you are following any patients implanted with the SJM Confirm ICM Models DM2100 or DM2102 and their device was upgraded using the Merlin programmer with the above mentioned software versions it is recommended to determine the patient's clinical reason for the implant and their continued need for the device:   |
|   | A product firmware upgrade using the Merlin <sup>¬</sup> Patient Care<br>System (PCS) programmer running software versions 10.1.1.3,<br>10.1.1.2, or 11.2.2 leaves the implantable cardiac monitor device<br>in a state which results in increased current usage.<br>If not corrected this state could result in premature<br>battery depletion. | <ul> <li>If the device has previously been used to record and assist in the diagnosis of an arrhythmia and is no longer needed, no further action i required. The device will exhaust its battery capacity prior to the 3 year expected longevity.</li> <li>If the unit is still indicated for diagnosing a potential clinical arrhythmia, contact your Field Clinical Engineer and he/she will assist in calculating the projected remaining longevity. If appropriate, the microprocessor operation can be reset to the nominal current drain.</li> <li>If the device is no longer indicated it can be left implanted until such time that a routine explant is desired.</li> </ul> |
|   |  | If the device is determined to be necessary and is experiencing increased current usage as described above, it can be corrected with assistance from your Sales Representative or Abbott Technical Services.  |

**Current Status (December 31, 2023)**: At the time of the advisory, 83 implanted devices world-wide were identified as having undergone the problematic firmware upgrade. All of these devices have been corrected using the Merlin PCS programmer or were determined by the clinician to not require further action because the device had already provided the necessary diagnostic information and was no longer required. There have been no additional implanted devices confirmed to have been affected by this issue. Updated Merlin PCS programmer software has been implemented which prevents this issue from occurring in the future.

### **REMOTE MONITORING/TRANSMITTERS**

| MODEL IDENTIFICATION   | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|--|--|---|
| Merlin@home** Software Model EX2000 v8.2.2<br>for Merlin@home** Transmitter<br>(Models EX1150, EX1150W, EX1100, EX1100W) | 4/3/2017<br>Class II<br>In recognition of the changing cybersecurity landscape, and<br>the increased public attention on medical device cyber risks, we<br>have informed the clinical community about available updates to<br>Merlin@home <sup>in</sup> transmitter software. The Merlin@home <sup>in</sup> patient<br>transmitter software version 8.2.2 includes security updates that<br>complement the company's existing security measures and further<br>reduce the already extremely low cybersecurity risks. | <ul> <li>Patients should ensure that their Merlin@home<sup>w</sup> transmitter is plugged in and connected via cellular adapter, wi-fi or landline so the transmitter can receive these and any future updates.</li> <li>Health Care Providers should continue to conduct patient management using the Merlin.net<sup>w</sup> Patient Care Network (PCN) and inoffice follow-ups per normal routine with patients who have an implantable cardiac device that is monitored using the Merlin@home<sup>w</sup> transmitter.</li> <li>For further information, health care providers can contact their local sales representative. In addition, both health care providers and patients can visit <u>Connectivity and Remote Care for Cardiac Rhythm Management   Abbott (cardiovascular.abbott)</u> for answers to questions and additional information regarding Abbott's implantable cardiac rhythm devices, or the Merlin@home<sup>w</sup> transmitter.</li> <li>Current Status (December 31, 2023): We have received no reports of device compromise related to the cybersecurity vulnerabilities in the implanted devices impacted by this communication.</li> </ul> |

### **REMOTE MONITORING/TRANSMITTERS**

| MODEL IDENTIFICATION                                    | ADVISORY   | FOLLOW-UP RECOMMENDATIONS AT TIME OF ADVISORY   |
|---|--|---|
| Merlin@home" RF Remote Monitoring<br>Transmitter EX1150 | <text><text><text><text><text><text></text></text></text></text></text></text> | The Merlin@home software update will be performed automatically over its telephone, broadband, or cellular connection without requiring any action from you or your patients. No changes to your patients' remote or in-clinic follow up schedules are required. Patients with implanted devices not mentioned above, patients who are being removely followed with inductive telemetry (wand directly) over the device) and patients not being followed removely are not affected by this issue. |
|   |  |   |

Healthcare Professional Communications

## Healthcare Professional Communications

### PACEMAKER AND CRT-P DEVICES

| MODEL IDENTIFICATION  | COMMUNICATION  | DETAILS  |
|---|--|--|
| Affinity", Entity", Integrity", Identity",<br>Sustain", Frontier", Victory" and<br>Zephyr" models | 1/29/2014<br>Worldwide<br>As part of Abbott's commitment to communications on device<br>performance, and in consultation with our Medical Advisory<br>Board, we provided Health Care Professionals information<br>regarding possible effects of electrocautery on older generation<br>Abbott pacemakers. | Abbott has reviewed incident reports on specific older generation pacemaker models exposed to electrocautery. When devices from these pacemaker families are exposed to electrocautery (as well as the PEAK PlasmaBlade'blade), they may exhibit a temporary change in function that could persist for 30 seconds or longer after the electrocautery exposure has been terminated. The duration of the effect depends on several factors including the battery voltage of the device, the energy of the electrocautery output, and the distance from the electrocautery source to the implanted system. The most clinically significant observation has been loss of capture due to a transient reduction in the pacing output voltage. Placing a magnet over the device or programming to an asynchronous pacing mode will not prevent this temporary reduction in pacing output. The effects of electrocautery on cardiac implantable electronic device operation are well documented in the scientific literature and most, if not all, pacemaker and implantable cardioverter defibrillator (ICD) User's Manuals include labeling about the use of electrosurgery equipment and its possible effects on the operational characteristics and/or internal circuitry of these devices. As is the case with all perioperative assessments in patients with cardiac implantable electronic devices, evaluating the individual patient's dependence on the implanted device should be assessed prior to any procedure that would ordinarily require electrocautery, particularly a pacemaker procedure. If pacemaker dependency is identified, either do not use electrocautery or employ appropriate precautions to ensure that the heart rate will be supported in the presence of electrocautery. Consideration of placing a temporary transvenous pacemaker is appropriate. <sup>12</sup> All Abbott pacemaker and ICD User's Manuals provide Warnings and Precautions regarding the use of electrosurgical devices in the vicinity of an implanted device. Importantly, the more recent families of Abbott pacemakers (Accent and Ant |
|   |  | References:  |

<sup>1</sup> Hayes and Friedman, Cardiac Pacing, Defibrillation and Resynchronization, 2nd Edition, p. 192
<sup>2</sup> Ellenbogen and Wood, Cardiac Pacing and ICDs, 4th Edition, p. 227

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Index of Phased-out Models

## Phased-out Models

As stated in the introduction of this Product Performance Report, product performance is plotted over a maximum range of 20 years, with a minimum of 500 registered implants required for inclusion in the report. As such, models that no longer meet the criteria for inclusion have been phased-out of the Product Performance Report over time. In order to provide our customers with information on these phased-out models, an index including the final edition for each phased-out model has been included. Previous Product Performance Reports can be viewed on the web at Product Performance Reports | Abbott (cardiovascular.abbott).

#### **CRT DEVICES**

Atlas" + HF (V-340) Atlas" + HF CRT-D (V-343) Atlas" II HF (V-365) Atlas" II + HF (V-366) Epic" HF (V-337) Epic" HF (V-338) Epic" II HF (V-355) Frontier" (5508) Promote" (3107-36) Promote" RF (3207-30) Promote" RF CRT-D (3207-36)

#### ICDS

Atlas<sup>TDR</sup> (V-240) Atlas" DR (V-242) Atlas" + DR (V-243) Atlas" II DR (V-265) Atlas" II + DR (V-268) Atlas" II VR (V-168) Atlas" VR (V-199) Atlas" + VR (V-193) Contour<sup>®</sup> II (V-185, V-185AC, V-185B, V-185C, V-185D) Contour<sup>®</sup> MD (V-175, V-175AC, V-175B, V-175C, V-175D) Current<sup>®</sup> DR (2107-36) Current<sup>®</sup> DR RF (2207-30) Current<sup>®</sup> DR RF (2207-36) Current<sup>®</sup> VR (1107-36) Current<sup>®</sup> VR (1207-30) Current" VR RF (1207-36) Epic<sup>™</sup> + DR (V-236) Epic<sup>\*\*</sup> + DR (V-239) Epic<sup>\*\*</sup> DR (V-233) Epic<sup>\*\*</sup> DR (V-235)

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Epic" II DR (V-255) Epic" II DR (V-258) Epic" II VR (V-158) Epic" + VR (V-196) Epic" VR (V-197) Photon" DR (V-230HV) Photon" µ DR (V-232) Photon" µ VR (V-194) Profile" (V-186F, V-186HV3)

ICDS

#### **DEFIBRILLATION LEADS**

Riata (1570, 1571) Riata (1580, 1581) Riata (1582) Riata<sup>\*\*</sup> i (1560, 1561) Riata<sup>\*\*</sup> ST (7002) Riata ST (7010, 7011) Riata ST Optim (7022) Riata<sup>\*\*</sup> ST Optim<sup>\*\*</sup> (7030, 7031) TVL<sup>\*\*</sup> ADX (1559) TVL<sup>\*\*</sup> RV (RV01, RV02, RV03, RV06, RV07) TVL<sup>\*\*</sup> SVC (SV01, SV02, SV03) SPL<sup>\*\*</sup> (SP01, SP02, SP03 & SP04)

#### PACEMAKERS

AddVent<sup>™</sup> (2060) Affinity<sup>™</sup> DC (5230) Affinity<sup>™</sup> DR (5330, 5331) Affinity<sup>™</sup> SR (5130, 5131) Affinity<sup>™</sup> VDR (5430) Entity<sup>™</sup> DC (5226) Entity<sup>™</sup> DR (5326) Identity<sup>™</sup> (5370) Identity ADx<sup>™</sup> DR (5380)

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## Phased-out Models

#### **PACEMAKERS**

Identity ADx<sup>\*\*</sup> XL DC (5286) Identity ADx<sup>--</sup> XL DR (5386) Identity ADx<sup>™</sup> SR (5180) Identity<sup>™</sup> SR (5172) Identity<sup>™</sup> XL (5376) Integrity<sup>\*\*</sup> SR (5142) Integrity<sup>\*\*</sup> µ SR (5136) Integrity ADx<sup>\*\*</sup> DR (5360) Integrity<sup>®</sup> ADx DR (5366) Integrity ADx<sup>\*\*</sup> SR (5160) Integrity<sup>\*\*</sup> AFx DR (5342, 5346) Integrity<sup>\*\*</sup> µ DR (5336) Meta<sup>®</sup> DDDR (1256) Meta<sup>®</sup> DDDR (1256D) Paragon<sup>®</sup> (2010, 2011, 2012) Paragon<sup><sup>¬</sup></sup> II (2016) Paragon<sup>®</sup> III (2304, 2314, 2315) Phoenix<sup>®</sup> II (2005, 2008, 2009) Phoenix<sup>--</sup> III (2204, 2205) Regency<sup>\*\*</sup> SC+ (2400L, 2402L) Solus" (2002, 2003) Solus<sup>\*\*</sup> II (2006, 2007) Synchrony<sup>\*\*</sup> II (2022, 2023) Synchrony<sup>--</sup> III (2028, 2029) Tempo<sup>\*\*</sup> D (2902) Tempo<sup>\*\*</sup> DR (2102) Tempo<sup>\*\*</sup> V (1102) Tempo<sup>\*\*</sup> VR (1902) Trilogy DC (2308) Trilogy DC+ (2318) Trilogy<sup>®</sup> DR (2350) Trilogy<sup>\*\*</sup> DR+ (2360, 2364) Trilogy SR (2250) Trilogy<sup>\*\*</sup> SR+ (2260, 2264) Verity ADx XL DC (5256) Verity ADx" XL DR (5356) Verity ADx<sup>\*\*</sup> XL DR M/S (5357M/S) Verity ADx<sup>\*</sup> XL SC (5056) Verity ADx<sup>\*\*</sup> XL SR (5156) Verity ADx" XL SR M/S (5157M/S)

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#### PACING LEADS

ACE" (1015M, 1025M) AV Plus" DX (1368) Fast-Pass<sup>\*\*</sup> (1018T, 1028T) IsoFlex<sup>™</sup> P (1644T) IsoFlex<sup>\*\*</sup> S (1642) IsoFlex<sup>™</sup> S (1646) Passive Plus" (1135K, 1143K, 1145K, 1235K, 1243K, 1245K) Passive Plus" (1136T, 1142T, 1146T, 1222T, 1226T, 1236T, 1242T, 1246T) Passive Plus<sup>®</sup> DX (1336T, 1342T, 1346T) Passive Plus<sup>®</sup> DX (1343K, 1345K) Permathane" ACE (1035M) Permathane<sup>®</sup> ACE (1036T, 1038T) Tendril<sup>--</sup> (1148T, 1188T) Tendril<sup>\*\*</sup> (1188K) Tendril<sup>--</sup> DX (1388K) Tendril<sup>®</sup> DX (1388T, 1388TC) Tendril<sup>®</sup> SDX (1488T, 1488TC) Unipolar Lead (1007)

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#### Abbott

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#### Rx Only

**Brief Summary**: Prior to using these devices, please review the Instructions for Use for a complete listing indications, contraindications, warnings, precautions, potential adverse events and directions for use.

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