



Medical Devices: *Technologies and Global Markets*

March 2018

Vijay Laxmi

Report Code: HLC170C

Table of Contents

- Chapter 1: Introduction 1**
- Study Goals and Objectives 1
- Reasons for Doing This Study 1
- Scope of Report 2
- Information Sources 2
- Methodology 2
- Geographic Breakdown 2
- Analyst’s Credentials 5
- Related BCC Research Reports 5
- Chapter 2: Summary and Highlights 7**
- Chapter 3: Market Overview 10**
- Innovations in the Global Medical Device Technology Industry 10
- Current Trends in the Medical Device Technology Industry 11
- Notable Trends in the Medical Device Technology Industry 12
- Definition, Evolution and Types of Medical Technologies 12
 - Definition 12
 - Uses of Various Devices 13
 - Evolution 13
 - Types 16
- Regulations and Legislation 17
 - Europe 17
 - U.S. 19
 - China 21
 - Japan 22
 - India 23
 - Others 24
- Market Dynamics 29
 - Drivers 29
 - Opportunities 33
 - Strategies 34
 - Trends 40
 - Mergers and Acquisitions 44
 - Recommendations 45
- Chapter 4: Global Medical Devices Technology Market 48**
- Overview 48
- Imaging Devices 49
- Market Dynamics 50
 - Increased Life Expectancy 50
 - Growing Incidence of Diseases 50
 - Improvement in Medical Device Technologies 50
 - Legislative Amendments and Other Initiatives 51
 - Resistance to New Technology-Based Systems Due to High Costs 51
 - Excise Duties Levied Under the Patient Protection and Affordable Care Act 51
 - Large Population Base in Emerging Economies 51
 - Increasing Government Spending on Healthcare and Healthcare Infrastructure 52

| | |
|---|-----|
| Magnetic Resonance Imaging | 53 |
| Market Dynamics | 53 |
| Innovation and New Products | 55 |
| Ultrasound Technology Market | 59 |
| Market Dynamics | 60 |
| New Product Innovations | 62 |
| Market Trends | 63 |
| Laser Imaging Market | 66 |
| Market Dynamics | 66 |
| New Product Innovations | 68 |
| Market Trends | 69 |
| Interventional Radiology Market | 70 |
| Market Dynamics | 71 |
| Innovation and New Products | 74 |
| Market Trends | 75 |
| X-Rays | 75 |
| Market Dynamics | 76 |
| Innovation and New Products | 79 |
| Market Trends | 80 |
| Computed Tomography | 82 |
| Market Dynamics | 83 |
| Innovation and New Products | 85 |
| Nuclear Medicine and Positron Emission Tomography (PET) | 86 |
| Market Dynamics | 87 |
| Innovation and New Products | 89 |
| Market Trends | 90 |
| Market Share of Key Players | 93 |
| Point-of-Care Technologies | 93 |
| Market Dynamics | 93 |
| Innovation and New Products | 94 |
| Market Trends | 95 |
| In Vitro Diagnostic Devices | 95 |
| Market Dynamics | 97 |
| Overall In Vitro Diagnostics Market Share | 100 |
| Professional In Vitro Diagnostics Market Share | 101 |
| In Vitro Diagnosis Types | 102 |
| Regulations | 104 |
| In Vitro Diagnostics Market by Region | 106 |
| Immunochemistry | 107 |
| Market Dynamics | 108 |
| Innovation and New Products | 110 |
| Trends | 111 |
| Market Share of Key Players | 111 |
| Point-of-Care Diagnostic Market | 114 |
| Innovation and New Products | 120 |
| Trends | 120 |
| Competitive Landscape | 122 |
| Molecular Diagnostics | 123 |
| Growing Global Prevalence of Hospital-Acquired and HPV Infections | 123 |
| Pharmacogenomics | 124 |
| Point-of-Care Testing | 124 |

| | |
|--|-----|
| Market Trends | 125 |
| Competitive Landscape | 126 |
| Market Trends | 128 |
| Cardiovascular Device Market | 129 |
| Cardiovascular Disease Types | 129 |
| Cardiac Arrhythmia | 129 |
| Coronary Blockages..... | 131 |
| Market Dynamics | 131 |
| Interventional Cardiology Devices | 133 |
| Stents | 133 |
| Percutaneous Transluminal Coronary Angioplasty Balloons..... | 135 |
| Percutaneous Transluminal Coronary Angioplasty Guidewires | 136 |
| Percutaneous Transluminal Coronary Angioplasty Guiding Catheters | 137 |
| Angiography Catheters..... | 137 |
| Balloon Inflation Devices..... | 137 |
| Intravascular Ultrasound..... | 138 |
| Cardiovascular Device Market Trends | 139 |
| Regulations | 140 |
| Cardiac Rhythm Management Market..... | 140 |
| Cardiac Rhythm Management Market Dynamics..... | 141 |
| Cardiac Arrhythmia Treatment Market Trends | 143 |
| Global Market Trends for Cardiac Rhythm Management | 147 |
| AFib Costs and Consequences..... | 149 |
| Cardiac Catheterization Technologies | 150 |
| Cardiac Catheterization Market Dynamics..... | 151 |
| Innovation and New Products | 152 |
| Orthopedic and Spinal Technologies | 153 |
| Market Dynamics | 153 |
| Regional Markets | 154 |
| Regulations | 155 |
| Reconstructive Implants..... | 155 |
| Reconstructive Implant Market Dynamics | 156 |
| Innovation and New Products | 158 |
| Trends | 159 |
| Market Share | 160 |
| Spinal Implants | 161 |
| Trauma Fixation Device Technology Market..... | 166 |
| Orthopedic Robotic Systems | 168 |
| Major Orthopedic Robotic Systems | 169 |
| Urology Device Market | 170 |
| Urology and Renal Device Market Dynamics | 171 |
| Medical Laser Systems for Urology..... | 172 |
| Regional Market for Urology and Nephrology | 173 |
| Regulations | 174 |
| Incontinence Devices | 174 |
| Incontinence and Ostomy Device Market Dynamics | 175 |
| Regional Market Trends for Incontinence and Ostomy Devices | 175 |
| Innovation and New Products | 177 |
| Market Shares for Ostomy and Incontinence Care Devices..... | 177 |
| Renal Dialysis Device Market..... | 179 |
| Endoscopy Devices | 180 |

| | |
|--|------------|
| Types | 181 |
| Market Dynamics for Endoscopy Device Technology | 183 |
| Rigid Endoscopes | 185 |
| Market Drivers for Rigid Endoscopic Devices | 186 |
| Flexible Endoscopes | 187 |
| Market Dynamics for Flexible Endoscopic Devices | 188 |
| Innovation and New Products | 189 |
| Drug Delivery Devices | 189 |
| Market Dynamics | 190 |
| Infusion Systems | 193 |
| Market Dynamics for Infusion Systems | 194 |
| Innovation and New Products | 195 |
| Market Trends | 195 |
| Inhalation Devices | 196 |
| Market Dynamics for Inhalation Devices | 197 |
| Needle-Free Injections and Transdermal Systems | 199 |
| Market Dynamics for Needle-free Injections and Transdermal Systems | 201 |
| New Product Developments | 201 |
| Market Trends | 202 |
| Chapter 5: Medical Device Technologies Market by Region | 206 |
| North America | 206 |
| Europe | 206 |
| Asia-Pacific | 207 |
| China | 209 |
| Rest of the World | 210 |
| Chapter 6: Competitive Landscape | 213 |
| Chapter 7: Company Profiles | 240 |
| Chapter 8: Patent Review/New Developments | 283 |
| About BCC Research | 292 |
| About BCC Research | 293 |
| BCC Membership | 293 |
| BCC Custom Research | 293 |

List of Tables

| | |
|---|-----|
| Summary Table Global Market for Medical Device Technologies, by Segment, Through 2022 (\$ Millions) | 7 |
| Table 1 Global Market for Medical Device Technology, by Segment, Through 2022 (\$ Millions) | 48 |
| Table 2 Global Market for Imaging Device Technologies, by Segment, Through 2022 (\$ Millions) | 49 |
| Table 3 Global Market for Imaging Device Technologies, by Region, Through 2022 (\$ Millions)..... | 52 |
| Table 4 Global Market for Magnetic Resonance Imaging Technology, by Region, Through 2022 (\$ Millions) | 55 |
| Table 5 Global Market for Ultrasound Technologies, by Region, Through 2022 (\$ Millions)..... | 65 |
| Table 6 Global Market for Laser Imaging Device Technologies, by Region, Through 2022 (\$ Millions) ... | 66 |
| Table 7 Global Market for Interventional Radiology Device Technologies, by Region, Through 2022 (\$ Millions) | 71 |
| Table 8 Global Market for X-Ray Device Technologies, by Region, Through 2022 (\$ Millions) | 76 |
| Table 9 Target Disease Statistics | 78 |
| Table 10 Global Market for Computed Tomography Technologies, by Region, Through 2022 (\$ Millions) | 83 |
| Table 11 Global Market for Nuclear Medicine/Pet Technologies, by Region, Through 2022 (\$ Millions) | 87 |
| Table 12 U.S. Reimbursement Policies by the Centers for Medicare and Medicaid Services | 92 |
| Table 13 Global Market for Point-of-Care Technologies, by Region, Through 2022 (\$ Millions) | 93 |
| Table 14 Global Market for In Vitro Diagnostic Technologies, by Region, Through 2022 (\$ Millions)..... | 97 |
| Table 15 Global Market for In Vitro Diagnostic Technologies, by Segment, Through 2022 (\$ Millions). | 104 |
| Table 16 Global Market for Immunochemistry Technologies, by Region, Through 2022 (\$ Millions).... | 107 |
| Table 17 Global Market for Clinical Chemistry Technologies, by Region, Through 2022 (\$ Millions)..... | 114 |
| Table 18 Point-of-Care Diagnostic Tests and Manufacturers | 115 |
| Table 19 Global Diabetes Incidence in the Top 10 Countries, 2016 (Millions) | 117 |
| Table 20 Global Market for Point-of-Care Testing Technologies, by Region, Through 2022 (\$ Millions) | 120 |
| Table 21 Point-of-Care Diagnostic Solutions Across Product Segments | 121 |
| Table 22 Global Market for Molecular Diagnostic Technologies, by Region, Through 2022 (\$ Millions) | 123 |
| Table 23 Global Market for Hematology Technologies, by Region, Through 2022 (\$ Millions) | 128 |
| Table 24 Global Market for Cardiovascular Device Technologies, by Segment, Through 2022 (\$ Millions) | 129 |
| Table 25 Global Ablation Types and Their Mechanisms | 130 |
| Table 26 Global Market for Cardiovascular Device Technologies, by Region, Through 2022 (\$ Millions) | 131 |
| Table 27 Incidence of Restenosis, by Stent Type (%) | 134 |
| Table 28 Drug-Eluting Stent Products and Manufacturers..... | 134 |
| Table 29 Bio-Absorbable Stent Products and Manufacturers | 135 |
| Table 30 Comparative Analysis of Stents, by Balloon Platform | 136 |
| Table 31 Manufacturers and Their Products | 138 |
| Table 32 Global Market for Cardiac Rhythm Management Technologies, by Region, Through 2022 (\$ Millions) | 141 |
| Table 33 Anti-Arrhythmic Drug Types and Clinical Usage | 143 |
| Table 34 Anti-Arrhythmic Drug Classification and Clinical Usage | 144 |
| Table 35 Global Market for Cardiac Catheterization Technologies, by Region, Through 2022 (\$ Millions) | 150 |
| Table 36 Global Market for Orthopedic and Spinal Technologies, by Segment, Through 2022 (\$ Millions) | 153 |
| Table 37 Global Market for Orthopedic and Spine Technologies, by Region, Through 2022 (\$ Millions) | 154 |

| | |
|--|-----|
| Table 38 Global Market for Reconstructive Implant Technologies, by Region, Through 2022 (\$ Millions) | 155 |
| Table 39 Global Market for Spinal Device Technologies, by Region, Through 2022 (\$ Millions) | 162 |
| Table 40 FDA and CE Approvals of Spinal Cord Stimulation Devices, 2001-2015 | 164 |
| Table 41 Global Market for Trauma Fixation Device Technologies, by Region, Through 2022 (\$ Millions) | 166 |
| Table 42 Global Market for Orthopedic Robotic System Technologies, by Region, Through 2022 (\$ Millions) | 168 |
| Table 43 Global Market for Urology and Renal Device Technologies, by Segment, Through 2022 (\$ Millions) | 171 |
| Table 44 Global Market for Urology and Renal Device Technologies, by Region, Through 2022 (\$ Millions) | 172 |
| Table 45 Global Market for Lithotripter Devices, by Region, Through 2022 (\$ Millions) | 173 |
| Table 46 Global Market for Incontinence and Ostomy Device Technologies, by Region, Through 2022 (\$ Millions) | 176 |
| Table 47 Global Market for Renal Dialysis Device Technologies, by Region, Through 2022 (\$ Millions) | 179 |
| Table 48 Global Market for Endoscopy Device Technologies, by Segment, Through 2022 (\$ Millions) | 181 |
| Table 49 Global Market for Endoscopy Device Technologies, by Region, Through 2022 (\$ Millions) | 182 |
| Table 50 Global Market for Rigid Endoscopic Device Technologies, by Region, Through 2022 (\$ Millions) | 186 |
| Table 51 Global Market for Flexible Endoscopic Device Technologies, by Region, Through 2022 (\$ Millions) | 188 |
| Table 52 Global Market for Drug Delivery Device Technologies, by Segment, Through 2022 (\$ Millions) | 190 |
| Table 53 Global Market for Drug Delivery Device Technologies, by Region, Through 2022 (\$ Millions) | 190 |
| Table 54 Global Market for Infusion System and Injectable Device Technologies, by Region, Through 2022 (\$ Millions) | 194 |
| Table 55 Global Market for Inhalation Device Technologies, by Region, Through 2022 (\$ Millions) | 197 |
| Table 56 Global Market for Needle-free Injection and Transdermal System Technologies, by Region, Through 2022 (\$ Millions) | 200 |
| Table 57 Major Drugs Administered Through Transdermal Drug Delivery Techniques | 202 |
| Table 58 North American Market for Medical Device Technologies, by Segment, Through 2022 (\$ Millions) | 206 |
| Table 59 European Market for Medical Device Technologies, by Segment, Through 2022 (\$ Millions) | 207 |
| Table 60 Asia-Pacific Market for Medical Device Technologies, by Segment, Through 2022 (\$ Millions) | 208 |
| Table 61 Estimated Global Production, Imports and Exports of Medical Devices in China, 2014-2017 (\$ Billions) | 209 |
| Table 62 Rest of the World Market for Medical Device Technologies, by Segment, Through 2022 (\$ Millions) | 211 |
| Table 63 Product Launches and Approvals in the Medical Device Technology Market, January 2011-September 2016 | 213 |
| Table 64 Mergers and Acquisitions in the Medical Device Technologies Market, January 2011-September 2016 | 220 |
| Table 65 Agreements, Joint Ventures, Expansions, Divestments and Investments in the Medical Device Technology Market, January 2011-September 2016 | 225 |
| Table 66 Certification, Reorganization, Research and Development Facilities, and Services and Solutions in the Medical Device Technology Market, January 2011-September 2016 | 231 |
| Table 67 Certifications and Services in the Medical Device Technology Market, January 2013-September 2016 | 237 |

| | |
|--|-----|
| Table 68 Reorganization, Collaboration, Spinoffs, Research and Development and Approvals in the Medical Device Technology Market, January 2013-September 2016..... | 237 |
| Table 69 3M’s Product Portfolio | 240 |
| Table 70 3M’s Recent Developments, 2015-October 2017..... | 241 |
| Table 71 Abbott Laboratories’ Product Portfolio | 242 |
| Table 72 Abbott Laboratories’ Recent Developments, September 2015-October 2017 | 242 |
| Table 73 Agilent’s Product Portfolio..... | 243 |
| Table 74 Agilent’s Recent Developments, August 2016-October 2017 | 243 |
| Table 75 Bayer Healthcare’s Product Portfolio | 244 |
| Table 76 Bayer Healthcare’s Recent Developments, June 2015-October 2017 | 244 |
| Table 77 Baxter International’s Product Portfolio | 245 |
| Table 78 Baxter International’s Recent Developments, March 2015-October 2017 | 246 |
| Table 79 Beckton, Dickinson and Co.’s Product Portfolio..... | 247 |
| Table 80 Beckton, Dickinson and Co.’s Recent Developments, August 2015-October 2017 | 247 |
| Table 81 Boston Scientific’s Product Portfolio..... | 248 |
| Table 82 Boston Scientific’s Recent Developments, April 2015-October 2017 | 248 |
| Table 83 Cardinal Health’s Product Portfolio..... | 249 |
| Table 84 Cardinal Health’s Recent Developments, March 2013-October2017 | 250 |
| Table 85 CryoLife Inc.’s Product Portfolio | 250 |
| Table 86 CryoLife Inc.’s Recent Development, December 2015-October 2017..... | 251 |
| Table 87 Danaher’s Product Portfolio | 251 |
| Table 88 Danaher’s Recent Developments, August 2015-October 2017 | 252 |
| Table 89 Dräger’s Product Portfolio | 253 |
| Table 90 Dräger’s Recent Developments, January 2015-October 2017..... | 253 |
| Table 91 DePuy Synthes’ Product Portfolio | 254 |
| Table 92 DePuy Synthes’ Recent Development, 2017 | 254 |
| Table 93 Endologix Inc.’s Product Portfolio | 255 |
| Table 94 Endologix Inc.’s Recent Developments, October 2015-October 2017 | 255 |
| Table 95 Fresenius’ Product Portfolio | 256 |
| Table 96 Fresenius’ Recent Developments, May 2015-September 2017..... | 257 |
| Table 97 GE Healthcare’s Product portfolio | 258 |
| Table 98 GE Healthcare’s Recent Developments, November 2015-October 2017..... | 258 |
| Table 99 Getinge AB’s Product Portfolio | 259 |
| Table 100 Getinge AB’s Recent Developments, 2015-October 2017..... | 260 |
| Table 101 Halyard Health, Inc.’s Product Portfolio | 261 |
| Table 102 Halyard Health, Inc.’s Recent Developments, March 2015-October 2017..... | 261 |
| Table 103 Hospira’s Product Portfolio..... | 262 |
| Table 104 Hospira’s Recent Developments, February 2015-October 2017 | 263 |
| Table 105 Johnson & Johnson’s Product Portfolio | 263 |
| Table 106 Johnson & Johnson’s Recent Developments, April 2016-October 2017 | 264 |
| Table 107 Medtronic’s Product Portfolio | 265 |
| Table 108 Medtronic’s Recent Developments, November 2015-October 2017..... | 265 |
| Table 109 Novartis’ Product Portfolio | 266 |
| Table 110 Novartis’ Recent Developments, October 2015-April 2016 | 266 |
| Table 111 Olympus Corp.’s Product Portfolio..... | 267 |
| Table 112 Olympus Corp.’s Recent Developments, April 2016-April 2017 | 268 |
| Table 113 Philips’ Product Portfolio | 268 |
| Table 114 Philips’ Recent Developments, April 2015-August 2017 | 269 |
| Table 115 Roche Diagnostics’ Product Portfolio | 270 |
| Table 116 Roche Diagnostics’ Recent Developments, January 2015-July 2017 | 270 |
| Table 117 Shanghai Kinetic Medical’s Product Portfolio | 271 |

| | |
|--|-----|
| Table 118 Shanghai Kinetic Medical’s Recent Development, 2016 | 272 |
| Table 119 Siemens Healthcare’s Product Portfolio | 272 |
| Table 120 Siemens Healthcare’s Developments, 2016 | 273 |
| Table 121 Smith & Nephew’s Product Portfolio | 273 |
| Table 122 Smith & Nephew’s Recent Developments, July 2015-July 2017 | 274 |
| Table 123 Smiths Medical’s Product Portfolio | 274 |
| Table 124 Smiths Medical’s Recent Developments, March 2015-February 2016 | 275 |
| Table 125 Stryker Corp.’s Product Portfolio | 276 |
| Table 126 Stryker Corp.’s Recent Developments, January 2015-September 2017..... | 276 |
| Table 127 Teleflex’s Product Portfolio | 277 |
| Table 128 Teleflex’s Recent Developments, July 2015-September 2017..... | 278 |
| Table 129 Thermo Fisher Scientific’s Product Portfolio | 279 |
| Table 130 Thermo Fisher Scientific’s Recent Developments, March 2016-August 2017..... | 279 |
| Table 131 Toshiba Medical Systems’ Product Portfolio | 280 |
| Table 132 Toshiba Medical Systems’ Recent Developments, November 2015-December 2016..... | 280 |
| Table 133 Zimmer’s Product Portfolio..... | 281 |
| Table 134 Zimmer’s Recent Developments, June 2015-April 2017 | 281 |
| Table 135 U.S. Medical Device Technology Patents, May 2016-October 2017..... | 283 |
| Table 136 European Medical Device Technology Patents, January 2014-October 2017..... | 286 |
| Table 137 Japanese Medical Device Technology Patents, October 2014-September 2017..... | 290 |

List of Figures

| | |
|--|-----|
| Summary Figure Global Market for Medical Device Technologies, by Segment, 2016-2022 (\$ Millions).. | 8 |
| Figure 1 Global Population Older than Age 60, by Region, 2015-2050 (Millions) | 29 |
| Figure 2 Global Projected Growth Rate of Diabetes Incidences in Patients Age 20-79 2010 and 2030 (%) | 31 |
| Figure 3 Global Incidence of Patients with Chronic Diseases, 2005-2030 (Millions) | 54 |
| Figure 4 Global Market Share of Key Companies in Magnetic Imaging Resonance Technologies, 2016 (%) | 59 |
| Figure 5 Countries with the Highest Percentage of People Age 65 and Older, 2016 (%) | 60 |
| Figure 6 Countries with the Highest Expected Percentage of People Age 60 and Older, 2050 (%) | 61 |
| Figure 7 Global Market Share of Ultrasound Technologies, by Company, 2016 (%) | 65 |
| Figure 8 Global Prevalence of Alzheimer’s Disease, by Region, 2010-2050 (Millions)..... | 67 |
| Figure 9 Global Market Share for Laser Imaging, by Company, 2016 (%) | 70 |
| Figure 10 Global Angioplasty Procedures, 2009-2012 (No. of Procedures) | 72 |
| Figure 11 Global Demand for Stents in Coronary Procedures, 2009-2012 (No. of Stents) | 73 |
| Figure 12 Picture Archiving and Communication System Process for Obtaining Images..... | 77 |
| Figure 13 Global Population, by Age Group, 2000 and 2050 (%)..... | 78 |
| Figure 14 Global Market Share for X-Ray Systems, by Company, 2016 (%) | 82 |
| Figure 15 Coronary Heart Disease in Selected Countries, 2016 (%)..... | 84 |
| Figure 16 Global Cardiovascular Mortality, by Income Level, 2015 (%) | 88 |
| Figure 17 Healthcare Expenditures in the U.S., China and India, 2014-2016 (\$ Billions) | 98 |
| Figure 18 Global Market Share for In Vitro Diagnostics, by Company, 2016 (%)..... | 101 |
| Figure 19 Global Market Share for Professional Diagnostics, by Company, 2016 (%) | 102 |
| Figure 20 Cardiovascular Disease in Selected Regions, 2016 (%)..... | 108 |
| Figure 21 Global HIV Infections, by Region, 2016 (No. of infections) | 109 |
| Figure 22 Global Market Share for Immunoassay for Infectious Diseases, 2016 (%) | 112 |
| Figure 23 Global Market Share for Immunoassay for Hepatitis and Retrovirus, by Company, 2016 (%) | 112 |
| Figure 24 Global Market Share for Immunoassay for Oncology and Endocrinology, by Company, 2015 (%)..... | 113 |
| Figure 25 Global Market Share for Immunoassay for Nucleic Acid Testing, by Company, 2015 (%) | 113 |
| Figure 26 Global Prevalence of Diabetes, by Age Group and Region (Millions) | 118 |
| Figure 27 Shift in Usage of Point-of-Care Diagnostic Solutions | 119 |
| Figure 28 U.S. Hospital Healthcare Spending, 2009-2022 (\$ Billions)..... | 121 |
| Figure 29 Global Market Share for Point-of-Care Diagnostics, by Company, 2015 (%) | 122 |
| Figure 30 Application of Molecular Diagnostics in Infectious Disease Segments, 2015 (%)..... | 124 |
| Figure 31 Global Market Share for Molecular Diagnostics, by Company, 2015 (%) | 126 |
| Figure 32 Global Population, by Age Group, 2000 and 2050 (%)..... | 132 |
| Figure 33 Evolution of Coronary Stents | 133 |
| Figure 34 Global Population Base to Age 65 and Older, 2000 and 2050 (%)..... | 142 |
| Figure 35 Osteoporotic Hip Fractures, by Region, 1990 and 2050 (Thousands)..... | 156 |
| Figure 36 Global Market Share for Reconstructive Implant Technologies, by Company, 2016 (%) | 160 |
| Figure 37 Global Market Share for Spinal Implants, by Company, 2016 (%) | 165 |
| Figure 38 Global Market Share for Trauma Device Fixation, by Company, 2015 (%) | 167 |
| Figure 39 Global Prevalence of Kidney Disease, by Region, 2012 (%)..... | 174 |
| Figure 40 Life Expectancy at Birth for Selected Countries, by Gender, 2012 (Years)..... | 175 |
| Figure 41 Global Population Age 60 and Older, 2010-2017 (Millions)..... | 176 |
| Figure 42 Global Market Share for Ostomy Care Devices, by Company, 2015 (%) | 178 |

| | |
|---|-----|
| Figure 43 Global Market Share for Incontinence Care Devices, by Company, 2015 (%) | 179 |
| Figure 44 Global Market Share for Renal Dialysis Devices, by Company, 2015 (%) | 180 |
| Figure 45 Global Prevalence of Colon Cancer, by Age, 2016 (Per 100,000 Population)..... | 184 |



About BCC Research

About BCC Research

With our unparalleled 45-year history, BCC Research provides comprehensive analyses of global market sizing, forecasting and industry intelligence, covering markets where advances in science and technology are improving the quality, standard and sustainability of businesses, economies and lives.

BCC Membership

From market sizing and forecasts, to opportunity assessments and competitive analyses, our ever-expanding library gives you the data, insights and intelligence required to ensure your project is a success. Members benefit from ongoing, unlimited access to the category or collections of their choice, and most membership packages pay for themselves within two to three reports being accessed.

Did you buy this report? You may qualify to apply your purchase price towards a full membership. Call 866/285-7215 or e-mail info@bccresearch.com to request a demo.

BCC Custom Research

Our experts provide custom research projects to those working to identify new markets, introduce new products, validate existing market share, analyze competition and assess the potential for products to impact existing markets. With impressive academic credentials and broad and deep knowledge of global industrial markets, our independent analysts and consultants develop the facts, figures, analysis and assessments to inform the decisions that will move your company ahead. Confidential inquiries to: custom@bccresearch.com or 781/205-2429.

DISCLAIMER

The information developed in this report is intended to be as reliable as possible at the time of publication and is of a professional nature. This information does not constitute managerial, legal or accounting advice, nor should it be considered as a corporate policy guide, laboratory manual or an endorsement of any product, as much of the information is speculative in nature. BCC Research and the author assume no responsibility for any loss or damage that might result from reliance on the reported information or from its use.

ISBN: 978-1-62296-651-6
March 2018