

# **Medical Bionics Market by Type (Vision Bionics/Bionic Eye, Ear Bionics, Orthopedic Bionics, Cardiac Bionics and Neural Bionics), and Method of Fixation (Implantable Bionics and External Bionics) - Global Opportunity Analysis and Industry Forecast, 2017-2023**

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## **Abstracts**

Bionics is the science of constructing artificial systems, which imitates the function of original organ. These artificial systems are used to replace a non-functional organ, which could be lost due to trauma, disease, and congenital defect.

The global medical bionics market generated \$15,348 million in 2016, and is projected to reach \$29,160 million by 2023, registering a CAGR of 9.6% during the study period. The medical bionics market is expected to witness significant growth during the forecast period, owing to increase in demand for organ transplant, dearth of organ donor, and rise in number of road accidents or work-related injuries leading to amputations. In addition, increase in pool of geriatric population, which are prone to organ failure and availability of technologically advanced products, such as total artificial heart, promotes the market growth. However, high cost of devices & treatments, dearth of skilled professionals, and unfavorable reimbursement policies are expected to restrain the market growth.

The global medical bionics market is segmented on the basis of product, method of fixation, and geography. Based on product type, it is classified into vision bionics, ear bionics, orthopedic bionics, cardiac bionics, and neural bionic. On the basis of method of fixation, it is bifurcated into implantable bionics and fixation bionics. Geographically, it is analyzed into North America, Europe, Asia-Pacific, and LAMEA.

The global medical bionics market is highly competitive and is lucrative in nature. The key market players have adopted various developmental strategies, such as product

launch & approval, strategic acquisitions, and mergers to strengthen their market position.

## **KEY BENEFITS FOR STAKEHOLDERS**

This report provides an extensive analysis of the current & emerging market trends and dynamics in the global medical bionics market.

Comprehensive analysis of geographical regions is provided to determine the prevailing opportunities in the global market.

This study provides the competitive landscape of the global market to predict the competitive environment globally.

This report entails the detailed quantitative analysis of the current market and estimations from 2017 to 2023 to identify the prevailing opportunities.

Comprehensive analysis of factors that drive and restrict the market growth is provided in the report.

## **KEY MARKET SEGMENTS**

### **By Product**

Vision Bionics/Bionic Eye

Ear Bionics

Cochlear Implant

Bone Anchored Hearing System

Auditory Brainstem Implant

Orthopedic Bionics

Upper Limb

## Lower Limb

Bionic Knee

Bionic Feet

## Exoskeleton

### Electrical Bone Growth Stimulator

Invasive Bone Growth Stimulator

Non-Invasive Bone Growth Stimulator

## Cardiac Bionics

Pacemaker

Total Artificial Heart

Ventricular Assist Device

Left Ventricular Assist Device (LVAD)

Right Ventricular Assist Device (RVAD)

Biventricular Assist Device (BIVAD)

Artificial Heart Valve

Mechanical Heart Valve

Tissue Heart Valve

## Neural /Brain Bionics

Internal Neurostimulator

Deep Brain Stimulator (DBS)

Sacral Nerve Stimulator (SNS)

Vagus Nerve Stimulator (VNS)

Spinal Cord Stimulator (SCS)

Other Neurostimulator

External Neurostimulator (Transcutaneous Electrical Nerve Stimulation (TENS))

#### By Method of Fixation

Implantable Bionics

External Bionics

#### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

The key players in the global medical bionics market include

ABBOTT LABORATORIES

Boston Scientific Corporation

Cochlear Ltd.

LivaNova PLC.

Medtronic plc.

Orthofix Holdings, Inc.

Assur Corporate

Retina Implant AG

Sonova

SECOND SIGHT

SynCardia Systems, LLC

William Demant Holding A/S

## Contents

### **CHAPTER 1 INTRODUCTION**

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS FOR STAKEHOLDERS
- 1.3. KEY MARKET SEGMENTS
- 1.4. RESEARCH METHODOLOGY
  - 1.4.1. Secondary research
  - 1.4.2. Primary research
  - 1.4.3. Analyst tools and models

### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1. KEY FINDINGS OF THE STUDY
- 2.2. CXO PERSPECTIVE

### **CHAPTER 3 MARKET OVERVIEW**

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
  - 3.2.1. Top investment pockets
  - 3.2.2. Market share analysis, 2016
- 3.3. MARKET DYNAMICS
  - 3.3.1. Drivers
    - 3.3.1.1. Rise in number of patients suffering from chronic diseases
    - 3.3.1.2. Increasing pool of geriatric population
    - 3.3.1.3. Technological advancements
    - 3.3.1.4. Increasing government focus on funding R&D initiatives
  - 3.3.2. Restraints
    - 3.3.2.1. High cost of treatment
    - 3.3.2.2. Stringent approval process
  - 3.3.3. Opportunities
    - 3.3.3.1. Lucrative opportunities in emerging economies
  - 3.3.4. Impact Analysis
- 3.4. GOVERNMENT REGULATIONS
- 3.5. CLINICAL TRIALS

### **CHAPTER 4 GLOBAL MEDICAL BIONICS MARKET, BY PRODUCT**

*Medical Bionics Market by Type (Vision Bionics/Bionic Eye, Ear Bionics, Orthopedic Bionics, Cardiac Bionics an...*

#### 4.1. OVERVIEW

4.1.1. Market size and forecast

#### 4.2. VISION BIONICS/ BIONICS EYE

4.2.1. Key market trends

4.2.2. Growth factors and opportunities

4.2.3. Market size and forecast

#### 4.3. EAR BIONICS

4.3.1. Key market trends

4.3.2. Growth factors and opportunities

4.3.3. Market size and forecast

4.3.3.1. Cochlear implants

4.3.3.2. Market size and forecast

4.3.3.3. Bone Anchored Hearing Systems (BAHS)

4.3.3.4. Market size and forecast

4.3.3.5. Auditory brainstem implants

4.3.3.6. Market size and forecast

#### 4.4. ORTHOPEDIC BIONICS

4.4.1. Key market trends

4.4.2. Growth factors and opportunities

4.4.3. Market size and forecast

4.4.3.1. Upper limb

4.4.3.2. Market size and forecast

4.4.3.3. Lower limb

4.4.3.4. Market size and forecast

4.4.3.4.1. Bionic knee

4.4.3.4.2. Market size and forecast

4.4.3.4.3. Bionic feet

4.4.3.4.4. Market size and forecast

4.4.3.5. Exoskeleton

4.4.3.6. Market size and forecast

4.4.3.7. Electrical bone growth stimulators

4.4.3.8. Market size and forecast

4.4.3.8.1. Invasive bone growth stimulators

4.4.3.8.2. Market size and forecast

4.4.3.8.3. Non-invasive bone growth stimulators

4.4.3.8.4. Market size and forecast

#### 4.5. CARDIAC BIONICS

4.5.1. Key market trends



- 4.5.2. Growth factors and opportunities
- 4.5.3. Market size and forecast
- 4.5.4. Pacemaker
  - 4.5.4.1. Implantable pacemaker
  - 4.5.4.2. External pacemaker
- 4.5.5. Market size and forecast
- 4.5.6. Total artificial heart
- 4.5.7. Market size and forecast
- 4.5.8. Ventricular assist device (VADs)
- 4.5.9. Market size and forecast
  - 4.5.9.1. Left Ventricular Assist Device (LVAD)
  - 4.5.9.2. Market size and forecast
  - 4.5.9.3. Right Ventricular Assist Device (RVAD)
  - 4.5.9.4. Market size and forecast
  - 4.5.9.5. Biventricular Assist Device (BIVAD)
  - 4.5.9.6. Market size and forecast
- 4.5.10. Artificial Heart Valves
- 4.5.11. Market size and forecast
  - 4.5.11.1. Mechanical Heart Valves
  - 4.5.11.2. Market size and forecast
  - 4.5.11.3. Tissue Heart Valves
  - 4.5.11.4. Market size and forecast
- 4.6. NEURAL/BRAIN BIONICS
  - 4.6.1. Key market trends
  - 4.6.2. Growth factors and opportunities
  - 4.6.3. Market size and forecast
  - 4.6.4. Internal Neurostimulators
  - 4.6.5. Market size and forecast
    - 4.6.5.1. Deep Brain Stimulators (DBS)
    - 4.6.5.2. Market size and forecast
    - 4.6.5.3. Sacral Nerve Stimulators (SNS)
    - 4.6.5.4. Market size and forecast
    - 4.6.5.5. Vagus Nerve Stimulators (VNS)
    - 4.6.5.6. Market size and forecast
    - 4.6.5.7. Spinal Cord Stimulators (SCS)
    - 4.6.5.8. Market size and forecast
    - 4.6.5.9. Other Neurostimulators
    - 4.6.5.10. Market size and forecast
  - 4.6.6. External Neurostimulators (Transcutaneous Electrical Nerve Stimulation)

(TENS))

4.6.7. Market size and forecast

## **CHAPTER 5 GLOBAL MEDICAL BIONICS MARKET, BY METHOD OF FIXATION**

### **5.1. OVERVIEW**

5.1.1. Market size and forecast

### **5.2. IMPLANTABLE BIONICS**

5.2.1. Market size and forecast

### **5.3. EXTERNAL BIONICS**

5.3.1. Market size and forecast

## **CHAPTER 6 GLOBAL MEDICAL BIONICS MARKET, BY REGION**

### **6.1. OVERVIEW**

### **6.2. NORTH AMERICA**

6.2.1. Key market trends

6.2.2. Key growth factors and opportunities

6.2.3. Market size and forecast

6.2.4. U.S. market size and forecast

6.2.5. Canada market size and forecast

6.2.6. Mexico market size and forecast

### **6.3. EUROPE**

6.3.1. Key market trends

6.3.2. Key growth factors and opportunities

6.3.3. Market size and forecast

6.3.4. Germany market size and forecast

6.3.5. France market size and forecast

6.3.6. UK market size and forecast

6.3.7. Italy market size and forecast

6.3.8. Spain market size and forecast

6.3.9. Rest of Europe market size and forecast

### **6.4. ASIA-PACIFIC**

6.4.1. Key market trends

6.4.2. Key growth factors and opportunities

6.4.3. Market size and forecast

6.4.4. Japan market size and forecast

6.4.5. China market size and forecast

6.4.6. India market size and forecast

- 6.4.7. Australia market size and forecast
- 6.4.8. Malaysia market size and forecast
- 6.4.9. Rest of Asia-Pacific market size and forecast
- 6.5. LAMEA
  - 6.5.1. Key market trends
  - 6.5.2. Key growth factors and opportunities
  - 6.5.3. Market size and forecast
  - 6.5.4. Brazil market size and forecast
  - 6.5.5. South Africa market size and forecast
  - 6.5.6. Saudi Arabia market size and forecast
  - 6.5.7. Rest of LAMEA market size and forecast

## **CHAPTER 7 COMPANY PROFILES**

### **7.1. ABOtt LABORATORIES**

- 7.1.1. Company overview
- 7.1.2. Company snapshot
- 7.1.3. Operating business segments
- 7.1.4. Business performance
- 7.1.5. Key strategic moves and developments
- 7.1.6. Strategy share (%)

### **7.2. BOSTON SCIENTIFIC CORPORATION**

- 7.2.1. Company overview
- 7.2.2. Company snapshot
- 7.2.3. Operating business segments
- 7.2.4. Business performance
- 7.2.5. Key strategic moves and developments
- 7.2.6. Strategy share (%)

### **7.3. COCHLEAR LTD.**

- 7.3.1. Company overview
- 7.3.2. Company snapshot
- 7.3.3. Operating business segments
- 7.3.4. Business performance
- 7.3.5. Key strategic moves and developments
- 7.3.6. Strategy share (%)

### **7.4. LIVANOVA PLC**

- 7.4.1. Company overview
- 7.4.2. Company snapshot
- 7.4.3. Operating business segments

- 7.4.4. Business performance
- 7.4.5. Key strategic moves and developments
- 7.4.6. Strategy share (%)
- 7.5. MEDTRONIC PLC
  - 7.5.1. Company overview
  - 7.5.2. Company snapshot
  - 7.5.3. Operating business segments
  - 7.5.4. Business performance
  - 7.5.5. Key strategic moves and developments
  - 7.5.6. Strategy share (%)
- 7.6. ORTHOFIX HOLDINGS, INC.
  - 7.6.1. Company overview
  - 7.6.2. Company snapshot
  - 7.6.3. Operating business segments
  - 7.6.4. Business performance
  - 7.6.5. Key strategic moves and developments
  - 7.6.6. Strategy share (%)
- 7.7. OSSUR
  - 7.7.1. Company overview
  - 7.7.2. Company snapshot
  - 7.7.3. Operating business segments
  - 7.7.4. Business performance
  - 7.7.5. Key strategic moves and developments
  - 7.7.6. Strategy share (%)
- 7.8. RETINA IMPLANT AG
  - 7.8.1. Company overview
  - 7.8.2. Company snapshot
  - 7.8.3. Operating business segments
  - 7.8.4. Business performance
  - 7.8.5. Key strategic moves and developments
  - 7.8.6. Strategy share (%)
- 7.9. SONOVA
  - 7.9.1. Company overview
  - 7.9.2. Company snapshot
  - 7.9.3. Operating business segments
  - 7.9.4. Business performance
  - 7.9.5. Key strategic moves and developments
  - 7.9.6. Strategy share (%)
- 7.10. SECOND SIGHT MEDICAL PRODUCTS, INC.

- 7.10.1. Company overview
- 7.10.2. Company snapshot
- 7.10.3. Operating business segments
- 7.10.4. Business performance
- 7.10.5. Key strategic moves and developments
- 7.10.6. Strategy share (%)
- 7.11. SYNCARDIA SYSTEMS, LLC
  - 7.11.1. Company overview
  - 7.11.2. Company snapshot
  - 7.11.3. Operating business segments
  - 7.11.4. Business performance
  - 7.11.5. Key strategic moves and developments
  - 7.11.6. Strategy share (%)
- 7.12. WILLIAM DEMANT HOLDING A/S
  - 7.12.1. Company overview
  - 7.12.2. Company snapshot
  - 7.12.3. Operating business segments
  - 7.12.4. Business performance
  - 7.12.5. Key strategic moves and developments
  - 7.12.6. Strategy share (%)

## List Of Tables

### LIST OF TABLES

- TABLE 1. NORTH AMERICA MEDICAL BIONICS MARKET, BY COUNTRY, 2016-2023(\$MILLION)
- TABLE 2. GLOBAL MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 3. GLOBAL ORTHOPEDIC BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 4. GLOBAL EAR BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 5. GLOBAL CARDIAC BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 6. GLOBAL PACEMAKERS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 7. GLOBAL VADS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 8. GLOBAL ARTIFICIAL HEART VALVES MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 9. GLOBAL NEURAL/BRAIN BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 10. GLOBAL INTERNAL NEURAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 11. GLOBAL MEDICAL BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)
- TABLE 12. NORTH AMERICA MEDICAL BIONICS MARKET, BY COUNTRY, 2014-2022 (\$MILLION)
- TABLE 13. EUROPE MEDICAL BIONICS MARKET, BY COUNTRY, 2014-2022 (\$MILLION)
- TABLE 14. ASIA-PACIFIC MEDICAL BIONICS MARKET, BY COUNTRY, 2014-2022 (\$MILLION)
- TABLE 15. LAMEA MEDICAL BIONICS MARKET, BY COUNTRY, 2014-2022 (\$MILLION)
- TABLE 16. GLOBAL VISION BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)
- TABLE 17. GLOBAL EAR BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)
- TABLE 18. GLOBAL ORTHOPEDIC BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)
- TABLE 19. GLOBAL CARDIAC BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)
- TABLE 20. GLOBAL NEURAL BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)
- TABLE 21. NORTH AMERICA MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

TABLE 22. EUROPE MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

TABLE 23. ASIA-PACIFIC MEDICAL BIONICS MARKET, BY TYPE, 2014-2022  
(\$MILLION)

TABLE 24. LAMEA MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

TABLE 25. GLOBAL MEDICAL BIONICS MARKET, BY FIXATION, 2014-2022  
(\$MILLION)

TABLE 26. GLOBAL EXTERNAL BIONICS MARKET, BY TYPE, 2014-2022  
(\$MILLION)

TABLE 27. GLOBAL IMPLANTABLE BIONICS MARKET, BY TYPE, 2014-2022  
(\$MILLION)

TABLE 28. ABBOTT: COMPANY SNAPSHOT

TABLE 29. ABBOTT: OPERATING SEGMENTS

TABLE 30. BOSTON: COMPANY SNAPSHOT

TABLE 31. BOSTON: OPERATING SEGMENTS

TABLE 32. COCHLEAR: COMPANY SNAPSHOT

TABLE 33. COCHLEAR: OPERATING SEGMENTS

TABLE 34. LIVANOVA: COMPANY SNAPSHOT

TABLE 35. LIVANOVA: OPERATING SEGMENTS

TABLE 36. MEDTRONIC: COMPANY SNAPSHOT

TABLE 37. MEDTRONIC: OPERATING SEGMENTS

TABLE 38. ORTHOFIX: COMPANY SNAPSHOT

TABLE 39. ORTHOFIX: OPERATING SEGMENTS

TABLE 40. OSSUR: COMPANY SNAPSHOT

TABLE 41. OSSUR: OPERATING SEGMENTS

TABLE 42. RETINA: COMPANY SNAPSHOT

TABLE 43. RETINA: OPERATING SEGMENTS

TABLE 44. SONOVA: COMPANY SNAPSHOT

TABLE 45. SONOVA: OPERATING SEGMENTS

TABLE 46. SECOND SIGHT: COMPANY SNAPSHOT

TABLE 47. SECOND SIGHT: OPERATING SEGMENTS

TABLE 48. SYNCARDIA: COMPANY SNAPSHOT

TABLE 49. SYNCARDIA: OPERATING SEGMENTS

TABLE 50. WILLIAM: COMPANY SNAPSHOT

TABLE 51. WILLIAM: OPERATING SEGMENTS



## List Of Figures

### LIST OF FIGURES

- FIGURE 1. MEDICAL BIONICS MARKET SEGMENTATION
- FIGURE 2. MARKET SHARE ANALYSIS, CARDIAC BIONICS, 2016
- FIGURE 3. MARKET SHARE ANALYSIS, NEURAL/BRAIN BIONICS, 2016
- FIGURE 4. MARKET SHARE ANALYSIS, EAR BIONICS MARKET, 2016
- FIGURE 5. DISTRIBUTION OF DISABLING HEARING LOSS PATIENTS (%), 2012
- FIGURE 6. CLINICAL TRIALS IN MEDICAL BIONICS MARKET, BY REGION
- FIGURE 7. CLINICAL TRIALS FOR MEDICAL DEVICES (%)
- FIGURE 8. U.S. MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 9. CANADA MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 10. MEXICO MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 11. GERMANY MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 12. FRANCE MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 13. UK MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 14. ITALY MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 15. SPAIN MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 16. REST OF EUROPE MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 17. LEADING CAUSES OF BLINDNESS IN JAPAN, 2013
- FIGURE 18. JAPAN MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 19. CHINA MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 20. INDIA MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 21. AUSTRALIA MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 22. MALAYSIA MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 23. REST OF ASIA-PACIFIC MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)
- FIGURE 24. GLOBAL MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- FIGURE 25. GLOBAL ORTHOPEDIC BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- FIGURE 26. GLOBAL EAR BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- FIGURE 27. GLOBAL CARDIAC BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- FIGURE 28. GLOBAL PACEMAKERS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- FIGURE 29. GLOBAL VADS MARKET, BY TYPE, 2014-2022 (\$MILLION)
- FIGURE 30. GLOBAL ARTIFICIAL HEART VALVES MARKET, BY TYPE, 2014-2022 (\$MILLION)
- FIGURE 31. GLOBAL NEURAL/BRAIN BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)



FIGURE 32. GLOBAL INTERNAL NEURAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

FIGURE 33. GLOBAL MEDICAL BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)

FIGURE 34. NORTH AMERICA MEDICAL BIONICS MARKET, BY COUNTRY, 2014-2022 (\$MILLION)

FIGURE 35. EUROPE MEDICAL BIONICS MARKET, BY COUNTRY, 2014-2022 (\$MILLION)

FIGURE 36. ASIA-PACIFIC MEDICAL BIONICS MARKET, BY COUNTRY, 2014-2022 (\$MILLION)

FIGURE 37. LAMEA MEDICAL BIONICS MARKET, BY COUNTRY, 2014-2022 (\$MILLION)

FIGURE 38. GLOBAL VISION BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)

FIGURE 39. GLOBAL EAR BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)

FIGURE 40. GLOBAL ORTHOPEDIC BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)

FIGURE 41. GLOBAL CARDIAC BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)

FIGURE 42. GLOBAL NEURAL BIONICS MARKET, BY REGION, 2014-2022 (\$MILLION)

FIGURE 43. NORTH AMERICA MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

FIGURE 44. EUROPE MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

FIGURE 45. ASIA-PACIFIC MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

FIGURE 46. LAMEA MEDICAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

FIGURE 47. GLOBAL MEDICAL BIONICS MARKET, BY FIXATION, 2014-2022 (\$MILLION)

FIGURE 48. GLOBAL EXTERNAL BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

FIGURE 49. GLOBAL IMPLANTABLE BIONICS MARKET, BY TYPE, 2014-2022 (\$MILLION)

FIGURE 50. BRAZIL MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)

FIGURE 51. SOUTH AFRICA MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)

FIGURE 52. SAUDI ARABIA MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)

FIGURE 53. REST OF LAMEA MEDICAL BIONICS MARKET, 2016-2023(\$MILLION)

FIGURE 54. ABBOTT: FINANCIALS

FIGURE 55. BOSTON: FINANCIALS  
FIGURE 56. COCHLEAR: FINANCIALS  
FIGURE 57. LIVANOVA: FINANCIALS  
FIGURE 58. MEDTRONIC: FINANCIALS  
FIGURE 59. ORTHOFIX: FINANCIALS  
FIGURE 60. OSSUR: FINANCIALS  
FIGURE 61. RETINA: FINANCIALS  
FIGURE 62. SONOVA: FINANCIALS  
FIGURE 63. SECOND SIGHT: FINANCIALS  
FIGURE 64. SYNCARDIA: FINANCIALS  
FIGURE 65. WILLIAM: FINANCIALS

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