

# Neuromodulation Devices: World Market Prospects 2013-2023

<https://marketpublishers.com/r/N9F950D2250EN.html>

Date: January 2013

Pages: 125

Price: US\$ 2,400.00 (Single User License)

ID: N9F950D2250EN

## Abstracts

### Report Details

Neuromodulation is one of the fastest growing sectors of the medical device market. Neuromodulation is a rapidly evolving medical technique that provides symptomatic relief through the alteration, or modulation, of nerve system function. It works by either stimulating nerves to produce a natural biological response or by applying small doses of pharmaceutical agents directly to the site of action.

The market has significant potential for growth with the increasing global burden of neurological and cardiovascular disorders, especially in the emerging economies. The growth in emerging markets such as India and China will be driven by an aging population that will increase demand for newer treatment options for age-related diseases. India's expanding economy is likely to see an increased wealth among the population, specifically within the middle class, which will cause an increased adoption of westernised lifestyles. Diseases such as obesity and coronary heart disease will therefore become more prevalent. The neuromodulation devices market in the emerging economies will also benefit from a rise in demand for non-invasive treatment options and medical tourism. Growth in this market will also be driven by the approval and launch of neuromodulation devices that are more effective and involve a more simplified, less-invasive implantation procedure.

Neuromodulation Devices: World Market Prospects 2013-2023 analyses the top 4 companies involved in the neuromodulation devices market. This report also provides sales forecasts, market share analyses, discussions of technological developments and analyses of commercial drivers and restraints, including SWOT analysis of the overall neuromodulation devices market. There are 75 tables and figures included. The result is

comprehensive profiles on the leading companies operating in the neuromodulation devices market with detailed analyses and informed opinion to benefit your work. Visiongain has determined that the value of the global Neuromodulation Devices Market will reach \$12.45bn in 2023.

### **What makes this report unique?**

Visiongain consulted widely with industry experts and full transcripts from these exclusive interviews are included in the report. As such, our reports have a unique blend of primary and secondary sources providing informed opinion. The report provides insight into key drivers and restraints facing the industry, as well as identifying leading companies. The report also provides a unique blend of qualitative analysis combined with extensive quantitative data including global, submarket and national market forecasts from 2012-2023 - all highlighting key business opportunities.

### **Why you should buy Neuromodulation Devices: World Market Prospects 2013-2023**

111 pages of comprehensive analysis

2 Exclusive Visiongain interviews with experts from

Cochlear Ltd

a US-based Medical Device Company (views provided anonymously)

75 tables, charts, and graphs

Neuromodulation Device market forecasts between 2012-2023

3 Neuromodulation Device submarket forecasts from 2012-2023

Spinal Cord Stimulation (SCS)

Deep Brain Stimulation (DBS)

Vagus Nerve Stimulation (VNS)

A SWOT analysis

Several leading companies identified and 4 profiled

Medtronic

St. Jude Medical

Boston Scientific

Cyberonics

### **You can order this report today**

Gain an understanding of the overall neuromodulation devices market and the leading companies operating in this market by ordering *Neuromodulation Devices: World Market Prospects 2013-2023*.

## Contents

### **1. EXECUTIVE SUMMARY**

- 1.1 Sector Highlights
- 1.2 Aim, Scope and Format of the Report
- 1.3 Chapter Outline
- 1.4 Research and Analysis Method
- 1.5 Glossary of Terms Related to the Report

### **2. AN INTRODUCTION TO NEUROMODULATION**

- 2.1 Neuromodulation
- 2.2 Techniques Used in Neuromodulation
  - 2.2.1 Electrical Stimulation Techniques
    - 2.2.1.1 Brain and Spinal Cord Therapies
    - 2.2.1.2 Cranial Nerve Stimulation
    - 2.2.1.3 Functional Electrical Stimulation
  - 2.2.2 Pharmacological Therapy
- 2.3 Application of Neuromodulation
  - 2.3.1 Pain
    - 2.3.1.1 Neuromodulation in The Management of Pain
  - 2.3.2 Depression
    - 2.3.2.1 Neuromodulation in The Management of Depression
  - 2.3.3 Epilepsy
    - 2.3.3.1 Neuromodulation in The Management of Epilepsy
  - 2.3.4 Urological Disorders: Overactive Bladder & Urinary Incontinence
    - 2.3.4.1 Neuromodulation in The Management of Urinary Incontinence
  - 2.3.5 Hearing Disorders: Profound Deafness
    - 2.3.5.1 Neuromodulation in The Management of Impaired Hearing
  - 2.3.6 Cardiac Disorders: Arrhythmias & Angina
    - 2.3.6.1 Neuromodulation in The Management of Cardiac Disorders
  - 2.3.7 Parkinson's Disease
    - 2.3.7.1 Neuromodulation in The Management of Parkinson's Disease

### **3. THE GLOBAL NEUROMODULATION DEVICES MARKET, 2011-2023**

- 3.1 The Global Medical Device Market, 2011
  - 3.1.1 The Global Neurology Devices Market, 2011

- 3.2 The Global Neuromodulation Devices Market, 2011
- 3.3 The Global Neuromodulation Devices Market Forecast, 2013-2023
- 3.4 Neuromodulation Devices: Industry Trends, 2013-2023

#### **4. NEUROMODULATION DEVICES MARKET SECTORS: SPINAL CORD STIMULATION**

- 4.1 Spinal Cord Stimulation (SCS)
- 4.2 SCS Market Forecast, 2013-2023
- 4.3 Spinal Cord Stimulation: Industry Trends, 2013-2023
- 4.4 Companies and Products
  - 4.4.1 Medtronic
  - 4.4.2 Boston Scientific
  - 4.4.3 St. Jude Medical (SJM)
  - 4.4.4 Nevro

#### **5. NEUROMODULATION DEVICES MARKET SECTORS: DEEP BRAIN STIMULATION**

- 5.1 Deep Brain Stimulation (DBS)
- 5.2 DBS Market Forecast, 2013-2023
- 5.3 Deep Brain Stimulation: Industry Trends, 2013-2023
- 5.4 Companies and Products
  - 5.4.1 Medtronic
  - 5.4.2 St. Jude Medical

#### **6. NEUROMODULATION DEVICES MARKET SECTORS: VAGUS NERVE STIMULATION**

- 6.1 Vagus Nerve Stimulation (VNS)
- 6.2 VNS Market Forecast, 2013-2023
- 6.3 Vagus Nerve Stimulation: Industry Trends, 2013-2023
- 6.4 Companies and Products
  - 6.4.1 Cyberonics
  - 6.4.2 CerebralRx (a spin-off of BioControl Medical)
  - 6.4.3 EnteroMedics

#### **7. THE LEADING NEUROMODULATION DEVICE MANUFACTURERS, 2011**

- 7.1 Few Players Dominate the Market
- 7.2 Neuromodulation Device Market: Breakdown By Company, 2011
- 7.3 Medtronic
  - 7.3.1 Sales and Recent Performance Analysis, 2011
    - 7.3.1.1 Restorative Therapies
  - 7.3.2 Medtronic Geographic Sales
  - 7.3.3 Medtronic News
    - 7.3.3.1 Expanding Into Sacral Neuromodulation
    - 7.3.3.2 Adaptive Spinal Neuromodulation
- 7.4 St. Jude Medical (SJM)
  - 7.4.1 Sales and Recent Performance Analysis, 2011
    - 7.4.1.1 Cardiac Rhythm Management/Neuromodulation (CRM/NMD)
  - 7.4.2 SJM Geographic Sales
  - 7.4.3 SJM News
    - 7.4.3.1 Peripheral Nerve Stimulation (PNS)
- 7.5 Boston Scientific
  - 7.5.1 Sales and Recent Performance Analysis, 2011
  - 7.5.2 Boston Scientific Geographic Sales
  - 7.5.3 Boston Scientific News
    - 7.5.3.1 Advancements in Deep Brain Stimulation (DBS) Technology
- 7.6 Cyberonics
  - 7.6.1 Sales and Recent Performance Analysis, 2011
  - 7.6.2 Cyberonics Geographic Sales
  - 7.6.3 Cyberonics News
    - 7.6.3.1 Strengthening VNS Technology Through Investment
- 7.7 Other Neuromodulation Device Manufacturers

## **8. LEADING NATIONAL NEUROMODULATION DEVICES MARKET, 2013-2023**

- 8.1 Regional Breakdown of The Global Neuromodulation Devices Market, 2011
- 8.2 The Global Neuromodulation Devices Market: Regional Forecast, 2011-2023
- 8.3 The US Market
- 8.4 The European Market
  - 8.4.1 Germany
  - 8.4.2 France
  - 8.4.3 Italy
  - 8.4.4 Spain
  - 8.4.5 UK
- 8.5 The Japanese Market

8.6 The Chinese Market

8.7 The Indian Market

## **9. NEUROMODULATION DEVICES MARKET: INDUSTRY PIPELINE**

9.1 Innovative Technology Drives the Market

9.2 Apnex Medical

9.3 CVRx

9.4 EnteroMedics

9.5 ImThera Medical

9.6 Intelect Medical (acquired by Boston Scientific Corporation)

9.7 MetaCure

9.8 NeuroPace

## **10. SWOT ANALYSIS OF THE NEUROMODULATION DEVICES MARKET, 2011**

10.1 Neuromodulation Devices: Industry Trends

10.2 Strengths

10.2.1 Safer Alternative

10.2.2 Cost Effective

10.2.3 Less Medication

10.3 Weaknesses

10.3.1 Mechanisms Are Not Well Understood

10.3.2 Market Dominated by Small Number of Large Companies

10.3.3 FDA Approvals

10.3.4 Failing Clinical Trials

10.4 Opportunities

10.4.1 Expanding Disease Indications

10.4.2 Increasing Prevalence of Neurological Diseases

10.4.3 The Potential of Personalised Medicine

10.4.4 Expansion into Emerging Markets

10.5 Threats

10.5.1 Emergence of Stem Cells

10.5.2 SCS Faces Competition from Other Treatment Options

10.5.3 Increasing Regulatory Scrutiny

## **11. OPINIONS FROM OUR INDUSTRY SURVEY**

11.1 Interview with Spokesperson From Medical Device Company

- 11.1.1 The Cochlear Implant Market
- 11.1.2 Cochlear Implant Technology
- 11.1.3 Products and Competition
- 11.1.4 Future Cochlear Implant Market
- 11.2 Interview with Mr. Martin Dobbelle, Avery Biomedical
  - 11.2.1 The Neuromodulation Devices Market
  - 11.2.2 Phrenic Nerve Stimulation & The Breathing Pacemaker System
  - 11.2.3 Patient Perception and Regulation
  - 11.2.4 Future Projections for The Neuromodulation Devices Market

## **12. CONCLUSIONS**

- 12.1 Overview
- 12.2 Spinal Cord Stimulation will Remain the Largest Segment
- 12.3 Prominent Companies in The Market
- 12.4 World Market Forecasts
- 12.5 Future Outlook and Concluding Remarks

Appendix A

About Visiongain

Appendix B

Visiongain report evaluation form



## List Of Tables

### LIST OF TABLES

Table 3.1 Net Sales (\$bn) and Market Shares (%) Of The Global Medical Market, By Sector, 2011

Table 3.2 The Global Neurology Devices Market: Net Sales (\$bn) and Market Shares (%), By Speciality, 2011

Table 3.3 The Global Neuromodulation Devices Market: Net Sales (\$bn) and Market Shares (%), By Technology, 2011

Table 3.4 The Global Neuromodulation Devices Market Forecast, By Sector (\$bn), 2011-2017

Table 3.5 The Global Neuromodulation Devices Market Forecast, By Sector (\$bn), 2017-2023

Table 4.1 Spinal Cord Stimulation: Market Forecast (\$bn), 2011-2017

Table 4.2 Spinal Cord Stimulation: Market Forecast (\$bn), 2017-2023

Table 5.1 Deep Brain Stimulation: Market Forecast (\$bn), 2011-2017

Table 5.2 Deep Brain Stimulation: Market Forecast (\$bn), 2017-2023

Table 6.1 Vagus Nerve Stimulation: Market Forecast (\$bn), 2011-2017

Table 6.2 Vagus Nerve Stimulation: Market Forecast (\$bn), 2017-2023

Table 7.1 Neuromodulation Devices: Net Sales (\$bn) and Market Shares (%), By Company, 2011

Table 7.2 Medtronic: Net Sales (\$bn) and Market Shares (%), By Segment, 2011

Table 7.3 Restorative Therapies: Net Sales (\$bn) and Market Shares (%), By Product Line, 2011

Table 7.4 Medtronic: Net Sales (\$bn) and Market Shares (%), By Region, 2011

Table 7.5 SJM: Net Sales (\$bn) and Market Shares (%), By Segment, 2011

Table 7.6 CRM/NMD Segment: Net Sales (\$bn) and Market Shares (%), By Product Group, 2011

Table 7.7 SJM: Net Sales (\$bn) and Market Shares (%), By Region, 2011

Table 7.8 Boston Scientific: Net Sales (\$bn) and Market Shares (%), By Product Category, 2011

Table 7.9 Boston Scientific: Net Sales (\$bn) and Market Shares (%), By Region, 2011

Table 7.10 Cyberonics: Net Sales (\$m) and Market Shares (%), By Region, 2011

Table 7.11 Other Companies Operating in The Global Neuromodulation Device Market, 2012

Table 8.1 Neuromodulation Devices: Sales (\$bn) and Market Shares (%), By Country/Region, 2011

Table 8.2 Neuromodulation Devices Market Forecast (\$bn), By Country/Region,

2011-2023

Table 8.3 The Leading European Neuromodulation Devices Markets: Market Value (\$bn), European Market Shares (%) and Global Market Shares (%), By Region, 2011

Table 8.4 The European Neuromodulation Devices Market Forecast (\$bn), By Region, 2011-2023

Table 9.1 Neuromodulation Devices: Industry Pipeline, 2012

Table 10.1 SWOT Analysis of the Neuromodulation Devices Market, 2012

Table 12.1 Neuromodulation Devices Market Forecast (\$bn) By Technology, in 2017, 2019 and 2023

## List Of Figures

### LIST OF FIGURES

Figure 3.1 Market Shares (%) Of The Global Medical Device Market, By Sector, 2011

Figure 3.2 The Global Neurology Devices Market: Market Shares (%), By Speciality, 2011

Figure 3.3 The Global Neuromodulation Devices Market: Net Sales (\$bn), By Technology, 2011

Figure 3.4 The Global Neuromodulation Devices Market: Market Shares (%), By Technology, 2011

Figure 3.5 The Global Neuromodulation Devices Market Forecast, 2011-2017

Figure 3.6 The Global Neuromodulation Devices Market Forecast, 2017-2023

Figure 4.1 Spinal Cord Stimulation: Market Forecast (\$bn), 2011-2017

Figure 4.2 Spinal Cord Stimulation: Market Forecast (\$bn), 2017-2023

Figure 5.1 Deep Brain Stimulation: Market Forecast (\$bn), 2011-2017

Figure 5.2 Deep Brain Stimulation: Market Forecast (\$bn), 2017-2023

Figure 6.1 Vagus Nerve Stimulation: Market Forecast (\$bn), 2011-2017

Figure 6.2 Vagus Nerve Stimulation: Market Forecast (\$bn), 2017-2023

Figure 7.1 Neuromodulation Devices: Net Sales (\$bn), By Company, 2011

Figure 7.2 Neuromodulation Devices: Market Shares (%), By Company, 2011

Figure 7.3 Medtronic: Market Shares (%), By Segment, 2011

Figure 7.4 Restorative Therapies: Net Sales (\$bn), By Product Line, 2011

Figure 7.5 Restorative Therapies: Market Shares (%), By Product Line, 2011

Figure 7.6 Medtronic: Net Sales (\$bn), By Region, 2011

Figure 7.7 Medtronic: Market Shares (%), By Region, 2011

Figure 7.8 SJM: Market Shares (%), By Segment, 2011

Figure 7.9 CRM/NMD Segment: Market Shares (%), By Product Group, 2011

Figure 7.10 SJM: Net Sales (\$bn), By Region, 2011

Figure 7.11 SJM: Market Shares (%), By Region, 2011

Figure 7.12 Boston Scientific: Net Sales (\$bn), By Product Category, 2011

Figure 7.13 Boston Scientific: Market Shares (%), By Product Category, 2011

Figure 7.14 Boston Scientific: Net Sales (\$bn), By Region, 2011

Figure 7.15 Boston Scientific: Market Shares (%), By Region, 2011

Figure 7.16 Cyberonics: Net Sales (\$m), By Quarter, 2011

Figure 7.17 Cyberonics: Net Sales (\$m), By Region, 2011

Figure 7.18 Cyberonics: Market Shares (%), By Region, 2011

Figure 8.1 Neuromodulation Devices: Net Sales (\$bn), By Region, 2011

Figure 8.2 Neuromodulation Devices: Market Shares (%), By Region, 2011

Figure 8.3 The US Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.4 The European Neuromodulation Devices Market: Net Sales (\$bn), By Region, 2011

Figure 8.5 The European Neuromodulation Devices Market: Market Shares (%), By Region, 2011

Figure 8.6 The European Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.7 The German Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.8 The French Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.9 The Italian Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.10 The Spanish Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.11 The UK Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.12 The Japanese Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.13 The Chinese Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 8.14 The Indian Neuromodulation Devices Market Forecast (\$bn), 2011-2023

Figure 12.1 Projected Neuromodulation Devices Market Size for 2017, 2019 and 2023, By Technology

Figure 12.2 Projected Total Neuromodulation Devices Market Size (\$bn) in 2011, 2017, 2019 and 2023

## **COMPANIES LISTED**

Advanced Bionics

Aleva Neurotherapeutics

Apnex Medical

Atrotech

Autonomic Technologies

Avery Biomedical

BioControl Medical

Boston Scientific

Cerbomed

Cervel Neurotech

CVRx

Cyberonics

ElectroCore

EnteroMedics

Functional Neuromodulation

ImThera Medical

Inspire Medical Systems

Intelect Medical

IntraPace  
Med-EI  
Medtronic  
MetaCure  
MicroTransponder  
Neurelec  
Neuronetics  
Neuronix Medical  
NeuroPace  
Neuros Medical  
Neurosigma  
Neurotech Group  
Neurowave Medical Technologies  
Nevro  
Respicardia  
Retina Implant AG  
RS Medical/Vertis Neuroscience  
Second Sight Medical Products  
Spinal Modulation  
SPR Therapeutics  
St. Jude Medical  
Synapse Biomedical  
Uroplasty

## **GOVERNMENT AGENCIES AND OTHER ORGANISATIONS MENTIONED IN THIS REPORT**

FDA  
WHO  
UN  
EU

## I would like to order

Product name: Neuromodulation Devices: World Market Prospects 2013-2023

Product link: <https://marketpublishers.com/r/N9F950D2250EN.html>

Price: US\$ 2,400.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N9F950D2250EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970