

# U.S. Market for Spinal Implants, MiS and VCF 2009

<https://marketpublishers.com/r/UF373356F03EN.html>

Date: December 2008

Pages: 412

Price: US\$ 7,495.00 (Single User License)

ID: UF373356F03EN

## Abstracts

The U.S. market for spinal implants is comprised of the fusion device market, MIS fusion market, motion preservation market, vertebral compression fracture (VCF) market, and the spinal electrical stimulation (E-Stim) market. In 2008, the total U.S. spinal implant market was valued at \$4.75 billion, an increase of 9% over 2007. The largest segment of this market was thoracolumbar fixation, followed by interbody devices and cervical fixation, which together comprise the total spinal fusion market, valued at \$3.7 billion in 2008. It should be noted that values for the minimally invasive fusion market, (MIS fusion) are included in the interbody and thoracolumbar fixation market values. The second largest segment was the VCF market, followed by E-Stim, and the motion preservation device market, respectively.

## Contents

### LIST OF FIGURES

## List Of Charts

### LIST OF CHARTS

#### EXECUTIVE SUMMARY

- 1.1 U.S.MARKET FOR SPINAL IMPLANTS
- 1.2 CERVICAL FUSION FIXATION MARKET
- 1.3 THORACOLUMBAR FUSION FIXATION MARKET
- 1.4 INTERBODY FUSION MARKET
- 1.5 MOTION PRESERVATION MARKET
- 1.6 MIS FUSION MARKET
- 1.7 VERTEBRAL COMPRESSION FRACTURE MARKET
- 1.8 SPINAL ELECTRICAL STIMULATION MARKET
- 1.9 LEADING COMPETITORS

#### RESEARCH METHODOLOGY

- 2.1 RESEARCH SCOPE
- 2.2 IDATA'S 9-STEP METHODOLOGY
  - Step 1: Project Initiation & Team Selection
  - Step 2: Prepare Data Systems and Perform Secondary Research
  - Step 3: Preparation for Interviews & Questionnaire Design
  - Step 4: Performing Primary Research
  - Step 5: Research Analysis: Establishing Baseline Estimates
  - Step 6: Market Forecast and Analysis
  - Step 7: Identify Strategic Opportunities
  - Step 8: Final Review and Market Release
  - Step 9: Customer Feedback and Market Monitoring

#### U.S. SPINAL IMPLANT MARKET

- 3.1 INTRODUCTION
- 3.2 MARKET ANALYSIS AND FORECAST
  - 3.2.1 Overview
  - 3.2.2 Market Analysis by Segment
  - 3.2.3 Trend Analysis and Forecast
- 3.3 MARKET DRIVERS AND LIMITERS
  - 3.3.1 Drivers
    - 3.3.1.1 Demographics

- 3.3.1.2 Emerging Technology
- 3.3.1.3 Reimbursement
- 3.3.1.4 MIS Procedures
- 3.3.2 Limiters
  - 3.3.2.1 FDA Approval
  - 3.3.2.2 Reimbursement
  - 3.3.2.3 Cost Containment
- 3.4 COMPETITIVE ANALYSIS
  - 3.4.1 Market Share
  - 3.4.2 Market Concentration
- 3.5 MERGERS AND ACQUISITIONS
  - 3.5.1 Zimmer – Endius
  - 3.5.2 Zimmer – Abbott Spine
  - 3.5.3 Kyphon – St. Francis Medical
  - 3.5.4 Medtronic – Kyphon
  - 3.5.5 Synthes – N-spine
  - 3.5.6 Orthofix – Blackstone

## **THE HUMAN SPINE**

- 4.1 BASIC ANATOMY
- 4.2 SPINAL PATHOLOGY & DISORDERS
  - 4.2.1 Overview
  - 4.2.2 Degenerative Disc Disease
    - 4.2.2.1 Disc Herniation
    - 4.2.2.2 Stenosis
    - 4.2.2.3 Spondylolisthesis
    - 4.2.2.4 Arthritis
  - 4.2.3 Deformity
    - 4.2.3.1 Scoliosis
    - 4.2.3.2 Kyphosis & Lordosis
  - 4.2.4 Trauma & Tumor
  - 4.2.5 Vertebral Compression Fractures
    - 4.2.5.1 Osteoporosis
    - 4.2.5.2 Vertebral Compression Fractures
- 4.3 SPINAL DISORDER TREATMENTS
  - 4.3.1 Decompression
    - 4.3.1.1 Microdecompression
    - 4.3.1.2 Laminectomy

- 4.3.2 Discectomy
- 4.3.3 Spinal Fusion
- 4.3.4 Corpectomy
- 4.3.5 Spinal Arthroplasty

## **SPINAL FUSION MARKET**

- 5.1 INTRODUCTION
- 5.2 INTERBODY FUSION DEVICE PROCEDURE VOLUMES
- 5.3 FUSION PROCEDURES BY SPINAL REGION
- 5.4 SPINAL FUSION MARKET
  - 5.4.1 Market Overview
  - 5.4.2 Traditional and MIS Fusion Markets

## **CERVICAL FIXATION MARKET**

- 6.1 INTRODUCTION
  - 6.1.1 Overview
  - 6.1.2 Cervical Anterior Plates
  - 6.1.3 Cervical Posterior Devices
- 6.2 PROCEDURE VOLUMES
  - 6.2.1 Total Cervical Fixation Procedures
  - 6.2.2 Cervical Anterior Fixation Procedures
  - 6.2.3 Cervical Posterior Fixation Procedures
- 6.3 CERVICAL FIXATION MARKET ANALYSIS AND FORECAST
  - 6.3.1 Cervical Fixation Market Overview
    - 6.3.1.1 Cervical Anterior Fixation Market Overview
    - 6.3.1.2 Cervical Posterior Fixation Market Overview
  - 6.3.2 Cervical Anterior Constrained Fixation Market
  - 6.3.3 Cervical Anterior Semi-Constrained Fixation Market
  - 6.3.4 Cervical Anterior Dynamic Fixation Market
  - 6.3.5 Cervical Anterior Bioresorbable Fixation Market
  - 6.3.6 Cervical Posterior Cable/Wiring Fixation Market
  - 6.3.7 Cervical Posterior Screw/Rod Fixation Market
  - 6.3.8 Occipitocervical Fixation Market
- 6.4 MARKET DRIVERS AND LIMITERS
  - 6.4.1 Market Drivers
  - 6.4.2 Market Limiters
- 6.5 COMPETITIVE ANALYSIS

## **THORACOLUMBAR FIXATION MARKET**

### **7.1 INTRODUCTION**

- 7.1.1 Overview
- 7.1.2 Degenerative Cases
- 7.1.3 Deformity
- 7.1.4 Trauma/Tumor

### **7.2 PROCEDURE VOLUMES**

- 7.2.1 Overview
- 7.2.2 Degenerative Procedure Volumes
- 7.2.3 Deformity Procedure Volumes
- 7.2.4 Trauma/Tumor Procedure Volumes
- 7.2.5 Posterior Plating Procedure Volumes

### **7.3 THORACOLUMBAR FUSION MARKET ANALYSIS & FORECAST**

- 7.3.1 Market overview
- 7.3.2 Degenerative Market
  - 7.3.2.1 Market Overview
  - 7.3.2.2 Degenerative Anterior Plating Market
  - 7.3.2.3 Degenerative Posterior Fixation Market
    - Single Level Degenerative Market
  - 7.3.2.4 Double Level Degenerative Market
  - 7.3.2.5 Multi-level degenerative Market
- 7.3.3 Deformity Market
- 7.3.4 Trauma/Tumor Market
- 7.3.5 Posterior Plating Market

### **7.4 MARKET DRIVERS AND LIMITERS**

- 7.4.1 Market Drivers
- 7.4.2 Market Limiters

### **7.5 COMPETITIVE ANALYSIS**

## **INTERBODY DEVICE MARKET**

### **8.1 INTRODUCTION**

- 8.1.1 Overview
- 8.1.2 Approach Type
  - 8.1.2.1 ALIF
  - 8.1.2.2 PLIF
  - 8.1.2.3 TLIF

#### 8.1.2.4 Cervical

### 8.1.3 Material Type

#### 8.1.3.1 Metal

#### 8.1.3.2 PEEK

#### 8.1.3.3 Machined Bone

## 8.2 PROCEDURE VOLUMES

### 8.2.1 Overview

#### 8.2.1.1 Interbody Procedures by Approach

#### 8.2.1.2 Interbody Procedures by Material

### 8.2.2 Procedures by Material Type

#### 8.2.2.1 PEEK Interbody Procedures

#### 8.2.2.2 Metal Interbody Procedures

#### 8.2.2.3 Interbody Machined Bone Procedures

### 8.2.3 Procedures by Approach

#### 8.2.3.1 ALIF Procedures

#### 8.2.3.2 PLIF Procedures

#### 8.2.3.3 TLIF Procedures

#### 8.2.3.4 Cervical Procedures

## 8.3 MARKET ANALYSIS AND FORECAST

### 8.3.1 Market Segmentation Overview

#### 8.3.1.1 Segmentation by Approach

#### 8.3.1.2 Segmentation by Material

### 8.3.2 ALIF Market by Material

### 8.3.3 PLIF Market by Material

### 8.3.4 TLIF Market by Material

### 8.3.5 Cervical Market by Material

### 8.3.6 Corpectomy/VBR Market

### 8.3.7 Metal Market by Approach

### 8.3.8 PEEK Market by Approach

### 8.3.9 Machined Bone Market by Approach

## 8.4 MARKET DRIVERS AND LIMITERS

### 8.4.1 Market Drivers

### 8.4.2 Market Limiters

## 8.5 COMPETITIVE ANALYSIS

### 8.5.1 Overview

### 8.5.2 Competitors in the Non-bone Market

### 8.5.3 Competitors in the Machined Bone Market

## MOTION PRESERVATION

## 9.1 OVERVIEW

### 9.1.1 The Technology

#### 9.1.1.1 Artificial Discs

#### 9.1.1.2 Dynamic Stabilization

#### 9.1.1.3 Nucleus Replacement

#### 9.1.1.4 Annular Repair

#### 9.1.1.5 Facet Arthroplasty

### 9.1.2 Market Summary

## 9.2 ARTIFICIAL DISCS

### 9.2.1 Procedure Volumes

### 9.2.2 Market Analysis and Forecast

#### 9.2.2.1 Overview

#### 9.2.2.2 Lumbar Artificial Disc Market

#### 9.2.2.3 Cervical Artificial Disc Market

### 9.2.3 Market Drivers and limiters

### 9.2.4 Competitive Analysis

## 9.3 DYNAMIC STABILIZATION

### 9.3.1 Introduction

### 9.3.2 Interspinous Device Market Analysis and Forecast

### 9.3.3 Leading Companies and Products

#### 9.3.3.1 Dynamic Stabilization Rods

#### 9.3.3.2 Interspinous Spacers

## 9.4 NUCLEUS REPLACEMENT

### 9.4.1 Introduction

### 9.4.2 Market Forecast

### 9.4.3 Leading Companies and Products

#### 9.4.3.1 Hydrogel Nucleus Replacement Devices

#### 9.4.3.2 Emerging Polymer/Synthetic Nucleus Replacement Devices

#### 9.4.3.3 Emerging Mechanical Nucleus Replacement Devices

## 9.5 ANNULUS REPAIR

### 9.5.1 Procedure Penetration

### 9.5.2 Market Forecast

### 9.5.3 Leading Companies and Products

## 9.6 FACET ARTHROPLASTY

### 9.6.1 Procedure and Market Forecast

### 9.6.2 Leading Companies and Products

## **VERTEBRAL COMPRESSION FRACTURE (VCF) MARKET**

## 10.1 INTRODUCTION

10.1.1 Percutaneous Vertebroplasty

10.1.2 Percutaneous Kyphoplasty

## 10.2 PROCEDURE VOLUMES

10.2.1 Total VCF Procedures

10.2.2 Vertebroplasty Procedures

10.2.3 Kyphoplasty Procedures

## 10.3 VCFMARKET ANALYSIS AND FORECAST

10.3.1 Total VCF Market

10.3.2 Kyphoplasty Market

10.3.3 Vertebroplasty Market

## 10.4 MARKET DRIVERS AND LIMITERS

10.4.1 Market Drivers

10.4.2 Market Limiters

## 10.5 COMPETITIVE ANALYSIS

10.5.1 Leading Companies and Products

10.5.2 Emerging Products and Technologies in the VCF Market

# **MIS SPINAL FUSION MARKET**

## 11.1 INTRODUCTION

11.1.1 Overview

11.1.2 Systems Overview

11.1.2.1 Percutaneous MIS Systems

11.1.2.2 Retractor Based MIS systems

11.1.3 Device Overview

## 11.2 PROCEDURE VOLUMES

11.2.1 Overview

11.2.2 MIS Thoracolumbar Fixation Procedures

11.2.3 Thoracolumbar Pedicle Screw Fixation Procedures

## 11.3 MIS FUSION MARKET ANALYSIS AND FORECAST

11.3.1 Overview

11.3.1.1 Introduction

11.3.1.2 MIS Market by Device

11.3.1.3 MIS Market by System

11.3.2 Total MIS Thoracolumbar Fixation Market

11.3.2.1 Overview

11.3.2.2 Facet Fixation Market

- 11.3.2.3 Pedicle Screw Fixation Market
- 11.3.2.4 Cannulated Pedicle Screw Fixation Market
- 11.3.2.5 Non-Cannulated Pedicle Screw Fixation Market
- 11.3.3 MIS Interbody Market
- 11.3.4 MIS Percutaneous System Market
- 11.3.5 MIS Retractor System Market
- 11.4 MARKET DRIVERS AND LIMITERS
  - 11.4.1 Market Drivers
  - 11.4.2 Market Limiters
- 11.5 COMPETITIVE ANALYSIS

## **SPINAL ELECTRICAL STIMULATION MARKET**

- 12.1 INTRODUCTION
- 12.2 UNIT VOLUMES
- 12.3 MARKET ANALYSIS AND FORECAST
  - 12.3.1 Overview
  - 12.3.2 Lumbar Electrical Stimulation Market
  - 12.3.3 Cervical Electrical Stimulation Market
- 12.4 MARKET DRIVERS AND LIMITERS
  - 12.4.1 Market Drivers
  - 12.4.2 Market Limiters
- 12.5 COMPETITIVE ANALYSIS

## **LIST OF FIGURES**

### **EXECUTIVE SUMMARY**

### **RESEARCH METHODOLOGY**

### **U.S. SPINAL IMPLANT MARKET**

Figure 3-1: Spinal Implant Market Segment Percentages, U.S., 2005 – 2015

Figure 3-2: Total Spinal Implant Market, U.S., 2005 – 2015

Figure 3-3: Spinal Implant Market Growth Rates, U.S., 2005 – 2015

Figure 3-4: Spinal Implant Market Drivers and Limiters, U.S., 2008

Figure 3-5: Spinal Implant Market Shares, U.S., 2008

### **The Human Spine**

### **Spinal Fusion Market**

Figure 5-1: Total Interbody Procedures by Approach, U.S., 2005 – 2015

Figure 5-2: Total Spinal Fusion Procedures, U.S., 2005 – 2015

Figure 5-3: Total Instrumented Spinal Fusions, U.S., 2005 – 2015

Figure 5-4: Total Spinal Fusion Market Percentages by Device Type, U.S., 2005 – 2015

Figure 5-5: Total Spinal Fusion Market, by Device Type, U.S., 2005 – 2015

Figure 5-6: Traditional and MIS Fusion Markets, U.S., 2005 – 2015

Cervical Fixation Market

Figure 6-1: Cervical Fixation Procedure Percentages, U.S., 2005 – 2015

Figure 6-2: Total Cervical Fixation Procedures, U.S., 2005 – 2015

Figure 6-3: Cervical Anterior Fixation Procedure Percentages, U.S., 2005 – 2015

Figure 6-4: Cervical Anterior Fixation Procedures by Segment, U.S., 2005 – 2015

Figure 6-5: Cervical Posterior Fixation Procedure Percentages, U.S., 2005 – 2015

Figure 6-6: Cervical Posterior Fixation Procedures by Segment, U.S., 2005 – 2015

Figure 6-7: Cervical Fixation Market; Segmentation Percentages, U.S., 2005 – 2015

Figure 6-8: Total Cervical Fixation Market, U.S., 2005 – 2015

Figure 6-9: Cervical Anterior Fixation Market Percentages, U.S., 2005 – 2015

Figure 6-10: Cervical Anterior Market by Segment, U.S., 2005 – 2015

Figure 6-11: Cervical Posterior Market; Segmentation Percentages, U.S., 2005 – 2015

Figure 6-12: Cervical Posterior Fixation Market, U.S., 2005 – 2015

Figure 6-13: Cervical Anterior Constrained Fixation Market, U.S., 2005-2015

Figure 6-14: Cervical Anterior Semi-Constrained Fixation Market, U.S., 2005 – 2015

Figure 6-15: Cervical Anterior Dynamic Fixation Market, U.S., 2005 – 2015

Figure 6-16 : Cervical Anterior Bioresorbable Fixation Market, U.S., 2005- 2013

Figure 6-17: Cervical Posterior Wiring Fixation Market, U.S., 2005 – 2015

Figure 6-18: Cervical Posterior Pedicle Screw/Rod Fixation Market, U.S., 2005 – 2015

Figure 6-19: Occipitocervical Fixation Market, U.S., 2005 – 2015

Figure 6-20: Cervical Fixation Market Drivers and Limiters, U.S., 2008

Figure 6-21: Cervical Fixation Market Share, U.S., 2008

THORACOLUMBAR FIXATION MARKET

Figure 7-1: Thoracolumbar Procedure Percentages Segmented by Indication, U.S., 2005 – 2015

Figure 7-2: Total Thoracolumbar Fixation Procedures, U.S., 2005 – 2015

Figure 7-3: Thoracolumbar Degenerative Procedure Percentages by Approach, U.S., 2005 – 2015

Figure 7-4: Thoracolumbar Degenerative Anterior Plating & Posterior Fixation Procedure Volumes, U.S., 2005 – 2015

Figure 7-5: Thoracolumbar Fixation Procedures by Levels Fused, U.S., 2005 – 2015

Figure 7-6: Thoracolumbar Deformity Fixation Procedures, U.S., 2005 – 2015

Figure 7-7: Thoracolumbar Trauma/Tumor Fixation Procedure Volumes, U.S., 2005 – 2015

Figure 7-8: Trauma/Tumor/Deformity Posterior Plating Procedures, U.S., 2005 – 2015

Figure 7-9: Thoracolumbar Market Share, U.S., 2005 – 2015

Figure 7-10: Total Thoracolumbar Fusion Fixation Market, U.S., 2005 – 2015

Figure 7-11: Thoracolumbar Degenerative Market Segmentation and Share, U.S., 2005 – 2015

Figure 7-12: Thoracolumbar Degenerative Anterior Plate Market Forecast, U.S., 2005 – 2015

Figure 7-13: Degenerative Posterior Fixation Market, U.S., 2005 – 2015

Figure 7-14: Degenerative Level Market Share Percentage Breakdown, U.S., 2005 – 2015

Figure 7-15: Degenerative Market Breakdown by Level, U.S., 2005 – 2015

Figure 7-16: Degenerative Single Level Market, U.S., 2005 – 2015

Figure 7-17: Degenerative Double Level Market, U.S., 2005 – 2015

Figure 7-18: Degenerative Multi-level Market, U.S., 2005 – 2015

Figure 7-19: Deformity Thoracolumbar Fixation Market, U.S., 2005 – 2015

Figure 7-20: Trauma/Tumor Fixation Market, U.S., 2005 – 2015

Figure 7-21: Posterior Plating Fixation Market, U.S., 2005 – 2015

Figure 7-22: Posterior Plating Penetration, U.S., 2005 – 2015

Figure 7-23: Overview of Market Drivers and Limiters for Thoracolumbar Fixation, U.S.

Figure 7-24: Thoracolumbar Fusion Fixation Market Share, U.S., 2008

#### INTERBODY DEVICE MARKET

Figure 8-1: Interbody Procedure Percentages by Approach, U.S., 2005 – 2015

Figure 8-2: Total Interbody Procedures by Approach, U.S., 2006-2013

Figure 8-3: Interbody Procedure Percentages by Material, , U.S., 2005 – 2015

Figure 8-4: Total Interbody Procedures by Material Type, U.S., 2005 – 2015

Figure 8-5: Interbody PEEK Device Procedure Percentages by Approach, U.S., 2005 – 2015

Figure 8-6: Interbody PEEK Device Procedures by Approach, U.S., 2005 – 2015

Figure 8-7: Interbody Metal Device Procedure Percentages by Approach, U.S., 2005 – 2015

Figure 8-8: Interbody Metal Device Procedures by Approach Type, U.S., 2005 – 2015

Figure 8-9: Interbody Machined Bone Procedure Percentages by Approach, Percentages, U.S., 2005 – 2015

Figure 8-10: Interbody Machined Bone Procedures by Approach, U.S., 2005 – 2015

Figure 8-11: ALIF Procedure Percentages by Material, U.S., 2005 – 2015

Figure 8-12: ALIF Procedures by Material, U.S., 2005 – 2015

Figure 8-13: PLIF Procedure Percentages by Approach, U.S., 2005 – 2015

Figure 8-14: PLIF Procedures by Material Type, U.S., 2005 – 2015

Figure 8-15: TLIF Procedure Percentages by Material Type, U.S., 2005 – 2015

Figure 8-16: TLIF Procedures by Material Type, U.S., 2005 – 2015

Figure 8-17: Cervical Interbody Procedure Percentages by Approach Type, U.S., 2005 –

2015

Figure 8-18: Cervical Interbody Procedures by Material, U.S., 2005 – 2015

Figure 8-19: Interbody Device Market Percentages by Approach, U.S., 2005 – 2015

Figure 8-20: Interbody Device Market by Approach, U.S., 2005 – 2015

Figure 8-21: Interbody Device Market Percentages Segmented by Material, U.S., 2005 – 2015

Figure 8-22: Interbody Devices Market Segmented by Material, US., 2005 – 2015

Figure 8-23: ALIF Market Percentages by Material, U.S., 2005 – 2015

Figure 8-24: ALIF Market by Material U.S., 2005 – 2015

Figure 8-25: ALIF Market by Material, Metal, U.S., 2005 – 2015

Figure 8-26: ALIF Market by Material, PEEK, U.S., 2005 – 2015

Figure 8-27: ALIF Market By Material, Machined Bone, U.S., 2005 – 2015

Figure 8-28: PLIF Market Percentages by Material, U.S., 2005 – 2015

Figure 8-29: PLIF Market by Material, U.S., 2005 – 2015

Figure 8-30: PLIF Market by Material, Metal, U.S., 2005 – 2015

Figure 8-31: PLIF Market By Material, PEEK, U.S., 2005 – 2015

Figure 8-32: PLIF Market By Material, Machined Bone, U.S., 2005 – 2015

Figure 8-33: TLIF Market Percentages by Material, U.S., 2005 – 2015

Figure 8-34: TLIF Market by Material U.S., 2005 – 2015

Figure 8-35: TLIF Market by Material, Metal, U.S., 2005 – 2015

Figure 8-36: TLIF Market by Material, PEEK, U.S., 2005-2015

Figure 8-37: TLIF Market by Material, Machined Bone, U.S., 2005 – 2015

Figure 8-38: CIF Market Percentages by Material, U.S., 2005 – 2015

Figure 8-39: CIF Market by Material U.S., 2005 – 2015

Figure 8-40: CIF Market by Material, Metal, U.S., 2005 – 2015

Figure 8-41: CIF Market by Material, PEEK, U.S., 2005 - 2015

Figure 8-42: CIF Market by Material, Machined Bone, U.S., 2005 – 2015

Figure 8-43: Corpectomy/VBR Cage Market, U.S., 2005 – 2015

Figure 8-44: Interbody Metal Device Market Percentages by Approach U.S., 2005 – 2015

Figure 8-45: Interbody Metal Device Market by Approach, U.S., 2005 – 2015

Figure 8-46: Interbody PEEK Market Percentages by Approach, U.S., 2005 – 2015

Figure 8-47: Interbody PEEK Device Market by Approach, U.S., 2005 – 2015

Figure 8-48: Interbody Machined Bone Market Percentages by Approach, U.S., 2005 – 2015

Figure 8-49: Interbody Machined Bone Device Market by Approach, U.S., 2005 – 2015

Figure 8-50: Interbody Device Market Drivers and Limiters, U.S., 2008

Figure 8-51: Leading Competitors in the Total Interbody Devices Market, Market Shares, U.S., 2006

Figure 8-52: Leading Competitors in the Non-bone Interbody Devices Market, Market Shares, U.S., 2008

Figure 8-53: Leading Competitors in the Machined Bone Allograft Interbody Device Market, Market Shares, U.S., 2008

#### MOTION PRESERVATION

Figure 9-1: Motion Preservation Market, U.S., 2005 – 2015

Figure 9-2: Artificial Disc Procedures and Fusion Procedure Penetration, U.S., 2005 – 2015

Figure 9-3: Artificial Disc Market Percentages by Type, U.S., 2005 – 2015

Figure 9-4: Artificial Disc Market by Type, U.S., 2005 – 2015

Figure 9-5: Lumbar Artificial Disc Market, U.S., 2005 – 2015

Figure 9-6: Cervical Artificial Disc Market, U.S., 2007 – 2015

Figure 9-7: Artificial Discs Market Drivers and Limiters, U.S., 2008

Figure 9-8: Leading Competitors for Artificial Discs, U.S., 2008

Figure 9-9: Interspinous Dynamic Stabilization Market, U.S., 2005 – 2015

Figure 9-10: Emerging Interspinous Products, U.S., 2008 – 2015

Figure 9-11: Leading Competitors for Interspinous Devices, U.S., 2008

Figure 9-12: Nucleus Replacement Device Market, U.S., 2012 – 2015

Figure 9-13: Emerging Hydrogel Nucleus Replacement Devices, U.S., 2008 – 2015

Figure 9-14: Emerging Polymer/Synthetic Nucleus Replacement Devices

Figure 9-15: Emerging Nucleus Replacement Devices, U.S., 2008 – 2015

Figure 9-16: Annular Repair Procedure Volumes and Penetration U.S., 2007 – 2015

Figure 9-17: Annular Repair Market, U.S., 2008 – 2015

Figure 9-18: Leading Competitors for Annular Repair Devices, U.S. 2008

Figure 9-19: Facet Arthroplasty Market, U.S., 2011 – 2015

Figure 9-20: Facet Arthroplasty Procedure Penetration Rates, U.S., 2011 – 2015

Figure 9-21: Emerging Facet Arthroplasty Devices, U.S., 2008 – 2015

#### VERTEBRAL COMPRESSION FRACTURE (VCF) MARKET

Figure 10-1: Total VCF Procedure Segmentation Percentages, U.S., 2005 – 2015

Figure 10-2: Total VCF Procedures by Type, U.S., 2005 – 2015

Figure 10-3: Vertebroplasty Procedures, U.S., 2005 – 2015

Figure 10-4 - Kyphoplasty Procedures and Fractures, U.S., 2005 – 2015

Figure 10-5: VCF Market Segmentation Percentages, U.S., 2005 – 2015

Figure 10-6: VCF Market by Type, U.S., 2005 – 2015

Figure 10-7: Kyphoplasty Market, U.S., 2005 – 2015

Figure 10-8: Vertebroplasty Market, U.S., 2005 – 2015

Figure 10-9: VCF Market Drivers and Limiters, U.S., 2005 – 2015

Figure 10-10: Leading Competitors, VCF Market Share, U.S., 2008

Figure 10-11: Emerging VCF Technologies, U.S., 2008 – 2015

## MIS SPINAL FUSION MARKET

Figure 11-1: Total MIS Fusion Procedures by device type, U.S., 2005 – 2015

Figure 11-2: MIS Thoracolumbar Fixation Procedure Percentages by Fixation Type, U.S., 2005 – 2015

Figure 11-3: Total MIS Thoracolumbar Fixation Procedures by Fixation Type, U.S, 2005 – 2015

Figure 11-4: Total MIS TL Pedicle Fixation Procedure Percentages Based on Approach Type, U.S, 2005 – 2015

Figure 11-5: Total MIS TL Pedicle Fixation Procedure Percentages Based on Screw Types, U.S., 2005 – 2015

Figure 11-6: Total MIS Thoracolumbar Pedicle Screw Fixation Procedures, U.S., 2005 – 2015

Figure 11-7: MIS Fusion Market by Device, U.S., 2005 – 2015

Figure 11-8: MIS Fusion Market by System, U.S., 2005 – 2015

Figure 11-9: MIS Thoracolumbar Fixation Market Percentages by Fixation Type, U.S., 2005 – 2015

Figure 11-10: MIS Thoracolumbar Fixation Market by Fixation Type., U.S., 2005 – 2015

Figure 11-11: Facet Fixation Market, U.S., 2005 – 2015

Figure 11-12: MIS Thoracolumbar Pedicle Screw Fixation Market by Screw Type, U.S., 2005 - 2015

Figure 11-13: MIS Cannulated Screw Market. U.S., 2005 – 2015

Figure 11-14: MIS Non-Cannulated Screw Market. U.S., 2005 – 2015

Figure 11-15: Summary of Total MIS Thoracolumbar Fixation Market by Segmentation, U.S., 2005 – 2015

Figure 11-16: MIS Interbody Market, U.S., 2005 – 2015

Figure 11-17: MIS Percutaneous Market, U.S., 2005 – 2015

Figure 11-18: MIS Retractor System Market Segmented by Device, U.S., 2005 – 2015

Figure 11-19: MIS Retractor Cannulated Screw Market, U.S., 2005 – 2015

Figure 11-20: MIS Retractor Non-Cannulated Market, U.S., 2005 – 2015

Figure 11-21: MIS Fusion Market Drivers and Limiters, U.S., 2008

Figure 11-22: Leading Competitors, MIS Spinal Fusion Devices, Market Share, U.S., 2008

## SPINAL ELECTRICAL STIMULATION MARKET

Figure 12-1: Electrical Stimulation Unit Volumes, U.S., 2005 – 2015

Figure 12-2: Total Electrical Stimulation Market, U.S., 2005 – 2015

Figure 12-3: Lumbar Electrical Stimulation Market, U.S., 2005 – 2015

Figure 12-4: Cervical Electrical Stimulation Market, U.S., 2005 – 2015

Figure 12-5: Electrical Stimulation Market Drivers and Limiters, U.S., 2008

Figure 12-6: Leading Competitors, Spinal Electrical Stimulation Devices, Market Share,

U.S., 2008

## LIST OF CHARTS

### EXECUTIVE SUMMARY

Chart 1-1: Spinal Implant Market by Segment, U.S., 2008

Chart 1-2: Cervical Fixation Market by Approach, U.S., 2005 – 2015

Chart 1-3: Thoracolumbar Fixation Market, U.S., 2005 – 2015

Chart 1-4: Interbody Device Market by Approach, U.S., 2008

Chart 1-5: Motion Preservation Market, U.S., 2005 -2015

Chart 1-6: Leading Competitors, Spinal Implant Market. U.S., 2008

### RESEARCH METHODOLOGY

#### U.S. SPINAL IMPLANT MARKET

Chart 3-1: Spinal Implant Market, U.S., 2008

Chart 3-2: Spinal Implant Market, U.S., 2005 – 2015

Chart 3-3: Spinal Implant Market Growth Trends, U.S., 2005 – 2015

Chart 3-4: Spinal Implant Market Growth Trends Excluding Motion Preservation, U.S., 2005 – 2015

Chart 3-5: Leading Competitors, Spinal Implant Market Shares, U.S., 2008

#### The Human Spine

#### Spinal Fusion Market

Chart 5-1: Total Interbody Procedures, U.S., 2008

Chart 5-2: Spinal Fusion Market by Device Type, U.S., 2008 - 2015

Chart 5-3: Spinal Fusion Market Growth Trends, U.S., 2005 – 2015

Chart 5-4: Traditional and MIS Fusion Market Forecast, U.S., 2005 – 2015

#### Cervical Fixation Market

Chart 6-1: Total Cervical Fixation Market Forecast, U.S., 2005 – 2015

Chart 6-2: Cervical Anterior Fixation Market, U.S., 2005 – 2015

Chart 6-3: Cervical Posterior Fixation Market Forecast, U.S., 2005 – 2015

Chart 6-4: Cervical Anterior Constrained Fixation Market Forecast, U.S., 2005 - 2015

Chart 6-5: Cervical Anterior Semi-Constrained Fixation Market Forecast, U.S., 2005 – 2015

Chart 6-6: Cervical Anterior Dynamic Fixation Market Forecast, U.S., 2005-2015

Chart 6-7: Cervical Anterior Bioresorbable Fixation Market Forecast, U.S., 2005 - 2015

Chart 6-8: Cervical Posterior Wiring Fixation Market Forecast, U.S., 2005 – 2015

Chart 6-9: Cervical Posterior Pedicle Screw/Rod Fixation Market Forecast 2005- 2015

Chart 6-10: Occipitocervical Fixation Market Forecast, U.S., 2005 – 2015

#### THORACOLUMBAR FIXATION MARKET

Chart 7-1: Total Thoracolumbar Fusion fixation Market Forecast, U.S., 2005 – 2015

Chart 7-2: Thoracolumbar Degenerative Market Forecast, U.S., 2005 – 2015

Chart 7-3: Thoracolumbar Degenerative Anterior Plate Market Forecast, U.S., 2005 – 2015

Chart 7-4: Degenerative Posterior Fixation Market Forecast, U.S., 2005 – 2015

Chart 7-5: Degenerative Single Level Market Forecast, U.S., 2005 – 2015

Chart 7-6: Degenerative Double Level Market Forecast , U.S, 2005 – 2015

Chart 7-7: Degenerative Multiple Level Market Forecast, U.S., 2005 – 2015

Chart 7-8: Deformity Thoracolumbar Fixation Market Forecast, U.S., 2005 – 2015

Chart 7-9: Trauma/Tumor Fixation Market Forecast, U.S., 2005 – 2015

Chart 7-10: Posterior Plating Fixation Market, U.S., 2005 – 2015

#### INTERBODY DEVICE MARKET

Chart 8-1: Interbody Market Trends by Approach, Growth Rates, U.S., 2005 – 2015

Chart 8-2: Interbody Market by Approach, U.S., 2005 – 2015

Chart 8-3: Interbody Market by Material, Growth Rates, U.S., 2005 – 2015

Chart 8-4: Interbody Market by Material, U.S., 2005 – 2015 ,

Chart 8-5: ALIF Market By Material, Growth Rates, U.S., 2005 – 2015

Chart 8-6: ALIF Market by Material, U.S., 2005 – 2015

Chart 8-7: PLIF Market Trends By Material, Growth Rates, U.S., 2005 – 2015

Chart 8-8: PLIF Market by Material, U.S., 2005 – 2015

Chart 8-9: TLIF Market Trends By Material, Growth Rates, U.S., 2005 – 2015

Chart 8-10: TLIF Market by Material, U.S., 2005 – 2015

Chart 8-11: CIF Market By Material, Growth Rates, U.S., 2005 – 2015

Chart 8-12: CIF Market by Material, U.S., 2005 – 2015

Chart 8-13: Corpectomy/VBR Cage Market, U.S., 2005 – 2015

Chart 8-14: Interbody Metal Device Market by Approach, Trends and Growth Rates, U.S., 2005 – 2015

Chart 8-15: Interbody Metal Device Market by Approach, U.S., 2005 – 2015

Chart 8-16: Interbody PEEK Device Market by Approach, Trends and Growth Rates, U.S., 2005 – 2015

Chart 8-17: Interbody PEEK Device Market by Approach, U.S., 2005 – 2015

Chart 8-18: Interbody Machined Bone Device Market by Approach, Trends and Growth Rates, U.S., 2005 – 2015

Chart 8-19: Interbody Machined Bone Device Market by Approach, U.S., 2005 – 2015

#### MOTION PRESERVATION

Chart 9-1: Motion Preservation Market, U.S., 2005 – 2015

Chart 9-2: Artificial Disc Market by Type, U.S., 2005 – 2015

Chart 9-3: Lumbar Artificial Disc Market, U.S., 2005 – 2015

Chart 9-4: Cervical Artificial Disc Market, U.S., 2007 – 2015

Chart 9-5: Interspinous Dynamic Stabilization Market, U.S., 2005 – 2015

Chart 9-6: Nucleus Replacement Device Market, U.S., 2012 – 2015

Chart 9-7: Annular Repair Market, U.S., 2008 -2015

Chart 9-8: Facet Arthroplasty Market, U.S., 2011 – 2015

#### MINIMALLY INVASIVE SPINAL VCF MARKET

Chart 10-1: VCF Market, U.S., 2005 – 2015

Chart 10-2: Kyphoplasty Market, U.S., 2005 – 2015

Chart 10-3: Vertebroplasty Market, U.S., 2005 – 2015

#### MIS SPINAL FUSION MARKET

Chart 11-1: MIS Fusion Market by Device, U.S., 2005 – 2015

Chart 11-2: MIS Fusion Market by System, U.S., 2005 – 2015

Chart 11-3: MIS Thoracolumbar Market Forecast, by Fixation Type, U.S., 2005 – 2015

Chart 11-4: Facet Fixation Market Forecast, U.S., 2005 – 2015

Chart 11-5: MIS Thoracolumbar Pedicle Screw Fixation Market Forecast, U.S., 2008 – 2015

Chart 11-6: MIS Cannulated Pedicle Screw Market, U.S., 2005 – 2015

Chart 11-7: Non-cannulated MIS Fusion Market, U.S., 2005 – 2015

Chart 11-8: MIS Interbody Fusion Market, U.S., 2005 – 2015

Chart 11-9: MIS Percutaneous Market, U.S., 2005 – 2015

Chart 11-10: MIS Retractor Market, U.S., 2005 – 2015

Chart 11-11: MIS Retractor Pedicle Screw Market, U.S., 2005 – 2015

#### SPINAL ELECTRICAL STIMULATION MARKET

Chart 12-1: Total Electrical Stimulation Market, U.S., 2005 – 2015

Chart 12-2: Lumbar Electrical Stimulation Market, U.S., 2005 – 2015

Chart 12-3: Cervical Electrical Stimulation Market, U.S., 2005 – 2015

## I would like to order

Product name: U.S. Market for Spinal Implants, MiS and VCF 2009

Product link: <https://marketpublishers.com/r/UF373356F03EN.html>

Price: US\$ 7,495.00 (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/UF373356F03EN.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