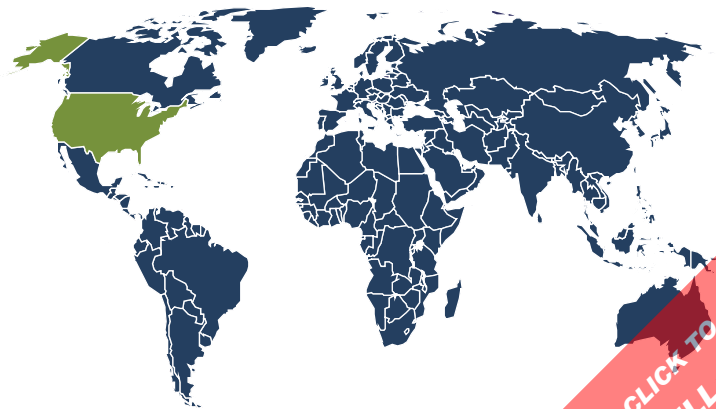


Freedonia Focus Reports  
US Collection

# Orthopedic Implants: United States

November 2016



## Highlights

### Market Environment

Historical Trends | Key Economic Indicators | Regulation  
Orthopedic Implant Procedures

### Segmentation and Forecasts

Products

### Industry Structure

Industry Characteristics | Market Leaders

### Resources

CLICK TO ORDER  
FULL REPORT

**BROCHURE**

CLICK TO ORDER  
FULL REPORT

[www.freedoniafocusreports.com](http://www.freedoniafocusreports.com)

# Table of Contents

---

<b>1. Highlights</b>	<b>3</b>
<b>2. Market Environment</b>	<b>4</b>
Historical Trends	4
Key Economic Indicators	6
Regulation	7
Orthopedic Implant Procedures	9
<b>3. Segmentation &amp; Forecasts</b>	<b>10</b>
Products	10
Knee Joint Replacements	11
Hip Joint Replacements	13
Other Joint Replacements	14
Spinal Implants	15
Trauma Implants	16
Orthobiologics	17
Dental Implants	18
<b>4. Industry Structure</b>	<b>20</b>
Industry Characteristics	20
Market Leaders	21
Boston Scientific Corporation	24
Johnson & Johnson	24
Medtronic	24
Smith & Nephew	25
St. Jude Medical	25
Stryker Corporation	25
Zimmer Biomet Holdings	25
<b>5. About This Report</b>	<b>26</b>
Scope & Method	26
Sources	26
Industry Codes	27
Resources	28

# List of Tables & Figures

---

Figure 1   US Orthopedic Implant Demand Trends; 2005, 2010, 2015	5
Table 1   Key Indicators for US Orthopedic Implant Demand; 2005, 2010, 2015, 2020	6
Figure 2   US Orthopedic Implant Demand by Product; 2005, 2010, 2015, 2020 (US\$ mil)	10
Table 2   US Orthopedic Implant Demand by Product; 2005, 2010, 2015, 2020 (US\$ mil)	10
Figure 3   US Orthopedic Implant Demand by Product Share; 2005, 2010, 2015, 2020 (%)	19
Table 3   Select Suppliers to the US Orthopedic Implant Market by Product Line	24
Table 4   Industry Codes Related to Orthopedic Implants	27

# About This Report

---

## Scope & Method

This report forecasts US orthopedic implant demand in US dollars at the manufacturers' level to 2020. Total demand is segmented by product in terms of:

- knee joint replacements
- hip joint replacements
- other joint replacements
- spinal implants
- trauma implants
- orthobiologics
- dental implants.

To illustrate historical trends, total demand and the various segments are reported at five-year intervals for 2005, 2010, and 2015. Total medical implant demand is provided in an annual series from 2005 to 2015.

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or  $r^2$ . The most stable data series relative to the trend carries an  $r^2$  value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

## Sources

*Orthopedic Implants: United States* (FF40043) is based on [Medical Implants in the US](#), a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers

## About This Report

- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group.

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

## Industry Codes

Table 4 | Industry Codes Related to Orthopedic Implants

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
339113	Surgical Appliance & Supplies Mfg	3842	Orthopedic, Prosthetic & Surgical Appliances & Supplies

Source: US Census Bureau

## Copyright & Licensing

The full report is protected by copyright laws of the United States of America and international treaties. The entire contents of the publication are copyrighted by The Freedonia Group.

## Resources

### The Freedonia Group

*Medical Implants in the US*, November 2016

### Freedonia Industry Studies

*World Medical Disposables*, August 2016

*In Vitro Diagnostic (IVD) Packaging*, June 2016

*Infection Prevention Products & Services*, April 2016

*Disposable Medical Supplies*, February 2016

*Dental Products & Materials*, January 2016

*Drug Delivery Products*, December 2015

*Medical Imaging Products*, September 2015

### Freedonia Focus Reports

*Healthcare Insurance: United States*

*Healthcare: United States*

*Infection Prevention Products & Services: United States*

*Medical Equipment & Supplies: United States*

*Medical Imaging Products: United States*

*Pharmaceuticals: United States*

*World Electronic Medical Records*

*World Medical Devices*

*World Medical Disposables*

*World Needle-Free Drug Delivery Systems*

*World Vaccines*

### Freedonia Custom Research

### Trade Publications

*Drug Development & Delivery*

*Drug Topics*

*FierceBiotech*

*Infection Control Today*

*Medical Design Technology*

*Medical Device & Diagnostic Industry*

*Medical Product Manufacturing News*

*Qmed Daily*

*Surgical Products*

### Agencies & Associations

Advanced Medical Technology Association

## About This Report

Association for the Advancement of Medical Instrumentation  
Medical Device Manufacturers Association  
Society for Biomaterials  
United States Census Bureau  
United States Department of Health & Human Services  
United States Food and Drug Administration  
United States International Trade Commission