Bone Graft Substitute Market Research Report- Global Forecast till 2027

Report / Search Code: MRFR/HC/0689-CRR  Publish Date: August, 2017

| Price          | 1-user PDF : $ 4450.0 | Enterprise PDF : $ 6250.0 |

Description:

Bone Graft Substitute Market information: by type (autograft, demineralized bone matrix, synthetic bone grafts, bone morphogenetic protein, others), by application (spinal fusion, joint reconstruction, long bone, dental, foot & ankle, others) - Global forecast till 2027

Market Synopsis of Global Bone Graft Substitute Market

Market scenario:

Bone grafting is a surgical procedure carried out fix facture bones and bone injury. The procedure involves transplantation of bone tissues to augment and regenerate bones that are lost due to diseases or an injuries. Autografts have been used for decades for the grafting purposes. Autografts is one of the greatest available surgical procedure for the bone grafting. However, due to the double incision required during the autograft procedure, the pain associated with the procedure, and the post-operative pain on both the sites have encouraged the scientists to look for the alternatives. With the changing trends, use of the allografts, xenografts, and synthetic bone grafts is on the rise. Thus, with the development of these innovative products as a substitute for the real bones, the global market for bone graft substitute is growing.

Increased use of bone grafting procedure in the fixation of the damaged/ broken bones, high demand of the bone graft substitutes in the military medical units, rising geriatric population with increasing orthopaedic problems, and increasing need for the reconstructive orthopaedic treatments drive the growth of the market. Additionally, increased usage of the bone graft substitutes in the field of dentistry and technological advancements from the leading market players with innovative bone graft products add fuel to the market growth. The bone graft substitute market offers great opportunities in the form of technological advancements in the orthopaedic industry, opportunities for investments, and consolidation for big healthcare providers in the U.S. among others. Synthetic material used in manufacturing of bone graft substitutes, for instance, hydroxyapatite are devoid of organic and biological agents, which hinder osteoconduction, osteoinduction, and osteogenesis. Thus, technological advancement in the form of recombinant DNA technology is use to eliminate these drawbacks by mixing these materials with growth factors to enhance grafts and stem cell-based auto grafts. The greater use of biotechnology is expected to increase the characteristics of synthetic bone graft such as osteoconduction, osteoinduction and osteogenesis, etc.

Furthermore, patient safety due to the risk of disease transmission in allografts and xenograft, risk of graft rejection, improper fixation and weak bonding, and unmet medical needs in the low income countries may hamper the growth of the market.
Considering all these factors, the global market of bone graft substitute is expected to reach $5,031.0 million by the end of 2027, this market is projected to grow at a CAGR of ~6.52% during the forecast period 2017-2027.

**Key Findings:**

- Americas accounted for the largest market share in 2016, and is projected to grow at a CAGR of 6.1% during the forecast period.
- Europe was the second-largest market in 2016 and is projected to grow at a CAGR of 6.76%.
- Asia Pacific is projected to show the fastest growth at the CAGR of 6.85% during the forecast period 2017-2027.

**Research Methodology**

**Sources:** Mayo Clinic, MRFR Analysis

**Intended Audience**

- Global bone graft substitute manufacturers & suppliers
- Research and development (R&D) companies
- Hospitals and clinics
- Academic institutes and universities

**Figure 1** Global bone graft substitute market share by type, 2016 (%)
Segments

The global bone graft substitute market has been segmented on the basis of type and application. Based on type, the market has been segmented as autograft, demineralized bone matrix, synthetic bone grafts, bone morphogenetic protein, and others. Based on the application, the market has been segmented as a spinal fusion, joint reconstruction, long bone, dental, foot & ankle, and others.

Regional analysis

The US accounts for the significant market share due to extensive use of medications and greater expenditure on health care. The fastest uptake of new technology and devices in the US is also an important driver of the global bone graft substitute market. The concentration of the major medical device manufacturers in the developed regions is also adding fuel to the market.

Europe is the second largest market due to a high disposable income and rising awareness regarding bone graft substitutes.

Asia Pacific region is expected to grow rapidly and is estimated that China and India will lead the market.

Gulf nations, particularly, Saudi Arabia and UAE drives the Middle East & African market. The African region is expected to witness a moderate growth owing to poor economic and political conditions, and poor healthcare penetration.

Key Players in the Global Bone Graft Substitute Market

Some of key players profiled in the report are ACE Surgical Supply Company, Inc., BioHorizons IPH, Inc., Dentium Co., Ltd., Dentsply Sirona, Institut Straumann AG, Medtronic plc, Stryker Corporation, Zimmer Biomet and others.

The report for Global Bone graft substitute market by Market Research Future comprises of extensive primary research along with the detailed analysis of qualitative as well as quantitative aspects by various industry experts, key opinion leaders to gain a deeper insight of the market and industry performance. The report gives a clear picture of the current market scenario which includes past and estimated future market size with respect to value and volume, technological advancement, macro economical and governing factors in the market. The report provides detail information about and strategies used by top key players in the industry. The report also gives a broad study of the different market segments and regions.

Contents:

Table of Contents

1 Report Prologue
2 Introduction
   2.1 Definition
2.2 Scope of Study
2.3 Research Objective
2.4 Assumptions & Limitations
2.4.1 Assumptions
2.4.2 Limitations
2.5 Market Structure

3 Research Methodology
3.1 Research Process
3.2 Primary Research
3.3 Secondary Research
3.4 Market Size Estimation
3.5 Forecast Model

4 Market Dynamics
4.1 Introduction
4.2 Drivers
4.2.1 Increase in the number of bone grafting procedures
4.2.2 Ageing population with demand for high quality musculoskeletal function in old age
4.2.3 Increasing penetration of orthopaedic speciality hospitals and healthcare insurance
4.3 Restraints
4.3.1 Risk and complications from bone grafting procedures
4.3.2 High cost of bone graft treatment
4.4 Opportunities
4.4.1 Technological advancements
4.4.2 High investment in biotech sector
4.4.3 Consolidation of large healthcare providers in the US
4.5 Challenges
4.5.1 Worsening regulatory landscape in the US
4.5.2 Growing cost of noncompliance
4.6 Macroeconomic Indicators
4.7 Technology Trends & Assessment
4.7.1 Bone-graft Materials
4.7.2 Recombinant DNA Technology
4.7.3 Titanium-foam Implant
4.7.4 Customised Degradable Implants
4.7.5 Nanotechnology

5 Market Factor Analysis
5.1 Porter’s Five Forces Analysis
5.1.1 Threat from a New Entrant
5.1.2 Bargaining Power of Buyer
5.1.3 Bargaining Power of Supplier
5.1.4 Threat from substitute
5.1.5 Intensity of Competitive Rivalry
5.2 Supply Chain Analysis
5.2.1 Raw Material
5.2.2 Supplier
5.2.3 Manufacturer
5.2.4 Distributer
5.2.5 Customer-Retailer
5.2.6 Consumer
5.3 Investment Opportunity Analysis
5.3.1 Market size, growth rate, and profitability
5.3.2 Investment Risks
5.3.3 Market Outlook
5.3.4 Competitors
5.3.5 Projections
5.4 Merger & Acquisition Landscape

6 Global Bone Graft Substitute Market, By Type
6.1 Introduction
6.2 Autograft
6.3 Demineralized Bone Matrix
6.4 Synthetic Bone Grafts
6.5 Bone Morphogenetic Protein
6.6 Others
Global Bone Graft Substitute Market, By Application
7.1 Introduction
7.2 Spinal Fusion
7.3 Joint Reconstruction
7.4 Long Bone
7.5 Dental
7.6 Foot & Ankle
7.7 Others

Global Bone Graft Substitute Market, By Region
8.1 Introduction
8.2 Americas
8.3 Europe
8.4 Asia Pacific
8.5 Middle East & Africa

Competitive Landscape
9.1 Introduction
9.2 Company Share Analysis

Company Profiles
10.1 ACE Surgical Supply Company, Inc.
10.1.1 Company Overview
10.1.2 Product Overview
10.1.3 Financial Overview
10.1.4 Key Development
10.2 BioHorizons IPH, Inc.
10.2.1 Company Overview
10.2.2 Product Overview
10.2.3 Financial Overview
10.2.4 Key Development
10.2.5 SWOT Analysis
10.3 Dentium Co., Ltd.
10.3.1 Company Overview
10.3.2 Product Overview
10.3.3 Financial Overview
10.3.4 Key Development
10.3.5 SWOT Analysis
10.4 Dentsply Sirona
10.4.1 Company Overview
10.4.2 Product Overview
10.4.3 Financial Overview
10.4.4 Key Development
10.4.5 SWOT Analysis
10.5 Institut Straumann AG
10.5.1 Company Overview
10.5.2 Product Overview
10.5.3 Financial Overview
10.5.4 Key Development
10.5.5 SWOT Analysis
10.6 Medtronic plc
10.6.1 Company Overview
10.6.2 Product Overview
10.6.3 Financial Overview
10.6.4 Key Development
10.6.5 SWOT Analysis
10.7 Stryker Corporation
10.7.1 Company Overview
10.7.2 Product Overview
10.7.3 Financial Overview
10.7.4 Key Development
10.7.5 SWOT Analysis
10.8 Zimmer Biomet
10.8.1 Company Overview
10.8.2 Product Overview
10.8.3 Financial Overview