

Bone Grafts and Substitutes Market By Type (Allografts, Bone grafts substitutes, Cell based matrices) , By Application (Spinal fusion, Trauma, Joint reconstruction, Dental bone grafting, Craniomaxillofacial) By End user (Hospitals, Specialty clinics, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The bone grafts and substitutes market was valued at \$2.8 billion in 2023, and is projected to reach \$4.4 billion by 2033, growing at a CAGR of 4.4% from 2024 to 2033.

Bone grafts and substitutes are devices that are used to replace missing or damaged bone in various medical procedures. They play a crucial role in orthopedics and spinal surgeries. The primary purpose of bone grafts and substitutes is to support the body's natural healing process by providing a scaffold for new bone growth, enhancing the repair and regeneration of bone tissue. Thus, bone grafts and substitutes serve as vital tools in modern medicine, significantly improving patient outcomes in various surgical disciplines.

The growth of the global bone grafts and substitutes market is majorly driven by alarming increase in incidence of orthopedic conditions and rise in cases of fractures and sports injuries. A study published by Wolters Kluwer, a Dutch information services company, stated that approximately two million bone grafting procedures are performed worldwide per year. Among these, 500,000 bone graft are performed annually in the U.S. alone. Moreover, surge in geriatric population significantly contributes toward the market growth. Aged individuals are highly susceptible

bone-related disorders such as osteoporosis and arthritis. This is attributed to the fact that minerals in bones of aged individuals start to leech out, making them brittle, fragile, and easily breakable, thereby necessitating the need for bone harvesters. As per the World Health Organization, the number of people aged 60 years and older was 1 billion in 2019. This number is estimated to increase to 1.4 billion by 2030 and 2.1 billion by 2050. Furthermore, shift in preference toward minimally invasive surgical techniques, which often involve bone grafts and substitutes, is notably contributing to the market growth. In addition, increase in healthcare expenditure, especially in developing regions, is improving the access to advanced orthopedic treatments, including bone grafting procedures, which acts as a significant driving force of the global market. However, high cost associated with bone grafting procedures and risk of immune rejection act as the key deterrent factors of the global market. On the contrary, innovations in graft materials and surgical techniques, such as the development of bioactive and synthetic bone grafts, have expanded the applications and improved the outcomes of bone grafting procedures, which are expected to open new avenues for the growth of the market during the forecast period. For instance, bioactive materials, such as bioactive glass and ceramics, are gaining traction due to their ability to enhance bone regeneration. Moreover, in 2020, the U.S. Food and Drug Administration approved a novel synthetic bone graft substitute designed to enhance bone healing in orthopedic and spinal surgeries, reflecting ongoing advancements and regulatory support in the market.

The global bone grafts and substitutes market analysis is segmented by type, application, end user, and region. On the basis of type, the market is categorized into allografts, bone grafts substitute, and cell-based matrices. Depending on application, it is divided into spinal fusion, trauma, craniomaxillofacial surgery, joint reconstruction, and dental bone grafting. By end user, it is classified into hospitals, specialty clinics, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of type, the bone grafts substitute segment accounted for the largest share in 2023.

Depending on application, the spinal fusion segment occupied largest bone grafts and substitutes market size in 2023, and is expected to remain dominant by 2033.

By end user, the hospitals segment was the major shareholder in 2023.

Region wise, North America garnered market share in 2023, and is anticipated to continue this trend during the forecast period.

Competition Analysis

Competitive analysis and profiles of the major players in the global bone grafts and substitutes market include Arthrex, Inc, Johnson & Johnson, Medtronic plc, NuVasive, Inc., Stryker Corporation, Zimmer Biomet Holdings, Inc., Baxter International Inc., Xtant Medical Holdings, Inc., Integra LifeSciences, and Orthofix Holdings, Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to sustain the intense competition and gain a strong foothold in the global market.

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Regulatory Guidelines

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

SWOT Analysis

Key Market Segments

By Type

Allografts

Machined allografts

Demineralized bone matrix

Bone grafts substitutes

Bone morphogenic proteins (BMP)

Synthetic bone grafts

Cell based matrices

By Application

Spinal fusion

Trauma

Joint reconstruction

Dental bone grafting

Craniofacial

By End User

Hospitals

Specialty clinics

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Arthrex, Inc

Johnson & Johnson

Medtronic plc

NuVasive, Inc.

Stryker Corporation

Zimmer Biomet Holdings, Inc.

Baxter International Inc.

Xtant Medical Holdings, Inc.

Integra LifeSciences

Orthofix Holdings, Inc.

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: RESPIRATORY CARE DEVICES MARKET, BY PRODUCT

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Product
- 4.2. Therapeutic Devices
 - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.2.5. Positive airway pressure (PAP) devices
 - 4.2.5.1. Market Size and Forecast
 - 4.2.5.2. Continuous Positive Airway Pressure (CPAP) Devices
 - 4.2.5.2.1. Market Size and Forecast
 - 4.2.5.2. Bilevel PAP (BPAP) devices
 - 4.2.5.2.1. Market Size and Forecast
 - 4.2.5.2. Automatic positive airway pressure (APAP) devices
 - 4.2.5.2.1. Market Size and Forecast
- 4.2.6. Mask
 - 4.2.6.1. Market Size and Forecast
 - 4.2.6.2. Nasal masks
 - 4.2.6.2.1. Market Size and Forecast
 - 4.2.6.2. Full-face masks
 - 4.2.6.2.1. Market Size and Forecast
 - 4.2.6.2. Nasal pillow masks
 - 4.2.6.2.1. Market Size and Forecast
 - 4.2.6.2. Oral masks
 - 4.2.6.2.1. Market Size and Forecast
- 4.2.7. Ventilators
 - 4.2.7.1. Market Size and Forecast
 - 4.2.7.2. Adult ventilator
 - 4.2.7.2.1. Market Size and Forecast
 - 4.2.7.2. Infant/neonatal ventilator
 - 4.2.7.2.1. Market Size and Forecast
- 4.2.8. Nebulizers
 - 4.2.8.1. Market Size and Forecast
- 4.2.9. Humidifiers
 - 4.2.9.1. Market Size and Forecast
- 4.2.10. Oxygen concentrators
 - 4.2.10.1. Market Size and Forecast
 - 4.2.10.2. Fixed oxygen concentrators
 - 4.2.10.2.1. Market Size and Forecast
 - 4.2.10.2. Portable oxygen concentrators
 - 4.2.10.2.1. Market Size and Forecast
- 4.2.11. Inhalers
 - 4.2.11.1. Market Size and Forecast
- 4.2.12. Reusable Resuscitators

- 4.2.12.1. Market Size and Forecast
- 4.2.13. Nitric oxide delivery units
 - 4.2.13.1. Market Size and Forecast
- 4.2.14. Capnographs
 - 4.2.14.1. Market Size and Forecast
- 4.2.15. Gas analyzers
 - 4.2.15.1. Market Size and Forecast
- 4.2.16. Oxygen hoods
 - 4.2.16.1. Market Size and Forecast
- 4.3. Monitoring Devices
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country
 - 4.3.5. Pulse oximeters
 - 4.3.5.1. Market Size and Forecast
 - 4.3.5.2. Pediatric pulse oximeters
 - 4.3.5.2.1. Market Size and Forecast
 - 4.3.5.2. Wrist-worn pulse oximeters
 - 4.3.5.2.1. Market Size and Forecast
 - 4.3.5.2. Hand-held pulse oximeters
 - 4.3.5.2.1. Market Size and Forecast
 - 4.3.5.2. Fingertip pulse oximeters
 - 4.3.5.2.1. Market Size and Forecast
 - 4.3.5.2. Table-top/bedside pulse oximeters
 - 4.3.5.2.1. Market Size and Forecast
- 4.4. Diagnostic Devices
 - 4.4.1. Key Market Trends, Growth Factors and Opportunities
 - 4.4.2. Market Size and Forecast, By Region
 - 4.4.3. Market Share Analysis, By Country
 - 4.4.5. Spirometers
 - 4.4.5.1. Market Size and Forecast
 - 4.4.6. Polysomnography (PSG) devices
 - 4.4.6.1. Market Size and Forecast
 - 4.4.7. Peak flow meters
 - 4.4.7.1. Market Size and Forecast
- 4.5. Consumables And Accessories
 - 4.5.1. Key Market Trends, Growth Factors and Opportunities
 - 4.5.2. Market Size and Forecast, By Region
 - 4.5.3. Market Share Analysis, By Country

- 4.5.5. Disposable masks
 - 4.5.5.1. Market Size and Forecast
- 4.5.6. Disposable resuscitators
 - 4.5.6.1. Market Size and Forecast
- 4.5.7. Tracheostomy tubes
 - 4.5.7.1. Market Size and Forecast
- 4.5.8. Nasal cannulas
 - 4.5.8.1. Market Size and Forecast
- 4.5.9. Others
 - 4.5.9.1. Market Size and Forecast

CHAPTER 5: RESPIRATORY CARE DEVICES MARKET, BY END USER

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By End User
- 5.2. Hospitals
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. Home Care
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country

CHAPTER 6: RESPIRATORY CARE DEVICES MARKET, BY REGION

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By Region
- 6.2. North America
 - 6.2.1. Key Market Trends and Opportunities
 - 6.2.2. Market Size and Forecast, By Product
 - 6.2.3. Market Size and Forecast, By End User
 - 6.2.4. Market Size and Forecast, By Country
 - 6.2.5. U.S. Respiratory Care Devices Market
 - 6.2.5.1. Market Size and Forecast, By Product
 - 6.2.5.2. Market Size and Forecast, By End User
 - 6.2.6. Canada Respiratory Care Devices Market
 - 6.2.6.1. Market Size and Forecast, By Product
 - 6.2.6.2. Market Size and Forecast, By End User

6.2.7. Mexico Respiratory Care Devices Market

6.2.7.1. Market Size and Forecast, By Product

6.2.7.2. Market Size and Forecast, By End User

6.3. Europe

6.3.1. Key Market Trends and Opportunities

6.3.2. Market Size and Forecast, By Product

6.3.3. Market Size and Forecast, By End User

6.3.4. Market Size and Forecast, By Country

6.3.5. Germany Respiratory Care Devices Market

6.3.5.1. Market Size and Forecast, By Product

6.3.5.2. Market Size and Forecast, By End User

6.3.6. France Respiratory Care Devices Market

6.3.6.1. Market Size and Forecast, By Product

6.3.6.2. Market Size and Forecast, By End User

6.3.7. UK Respiratory Care Devices Market

6.3.7.1. Market Size and Forecast, By Product

6.3.7.2. Market Size and Forecast, By End User

6.3.8. Italy Respiratory Care Devices Market

6.3.8.1. Market Size and Forecast, By Product

6.3.8.2. Market Size and Forecast, By End User

6.3.9. Spain Respiratory Care Devices Market

6.3.9.1. Market Size and Forecast, By Product

6.3.9.2. Market Size and Forecast, By End User

6.3.10. Rest of Europe Respiratory Care Devices Market

6.3.10.1. Market Size and Forecast, By Product

6.3.10.2. Market Size and Forecast, By End User

6.4. Asia-Pacific

6.4.1. Key Market Trends and Opportunities

6.4.2. Market Size and Forecast, By Product

6.4.3. Market Size and Forecast, By End User

6.4.4. Market Size and Forecast, By Country

6.4.5. Japan Respiratory Care Devices Market

6.4.5.1. Market Size and Forecast, By Product

6.4.5.2. Market Size and Forecast, By End User

6.4.6. China Respiratory Care Devices Market

6.4.6.1. Market Size and Forecast, By Product

6.4.6.2. Market Size and Forecast, By End User

6.4.7. India Respiratory Care Devices Market

6.4.7.1. Market Size and Forecast, By Product

- 6.4.7.2. Market Size and Forecast, By End User
- 6.4.8. South Korea Respiratory Care Devices Market
 - 6.4.8.1. Market Size and Forecast, By Product
 - 6.4.8.2. Market Size and Forecast, By End User
- 6.4.9. Australia Respiratory Care Devices Market
 - 6.4.9.1. Market Size and Forecast, By Product
 - 6.4.9.2. Market Size and Forecast, By End User
- 6.4.10. Rest of Asia-Pacific Respiratory Care Devices Market
 - 6.4.10.1. Market Size and Forecast, By Product
 - 6.4.10.2. Market Size and Forecast, By End User
- 6.5. LAMEA
 - 6.5.1. Key Market Trends and Opportunities
 - 6.5.2. Market Size and Forecast, By Product
 - 6.5.3. Market Size and Forecast, By End User
 - 6.5.4. Market Size and Forecast, By Country
 - 6.5.5. Brazil Respiratory Care Devices Market
 - 6.5.5.1. Market Size and Forecast, By Product
 - 6.5.5.2. Market Size and Forecast, By End User
 - 6.5.6. Saudi Arabia Respiratory Care Devices Market
 - 6.5.6.1. Market Size and Forecast, By Product
 - 6.5.6.2. Market Size and Forecast, By End User
 - 6.5.7. South Africa Respiratory Care Devices Market
 - 6.5.7.1. Market Size and Forecast, By Product
 - 6.5.7.2. Market Size and Forecast, By End User
 - 6.5.8. Rest of LAMEA Respiratory Care Devices Market
 - 6.5.8.1. Market Size and Forecast, By Product
 - 6.5.8.2. Market Size and Forecast, By End User

CHAPTER 7: COMPETITIVE LANDSCAPE

- 7.1. Introduction
- 7.2. Top Winning Strategies
- 7.3. Product Mapping of Top 10 Player
- 7.4. Competitive Dashboard
- 7.5. Competitive Heatmap
- 7.6. Top Player Positioning, 2023

CHAPTER 8: COMPANY PROFILES

- 8.1. Masimo
 - 8.1.1. Company Overview
 - 8.1.2. Key Executives
 - 8.1.3. Company Snapshot
 - 8.1.4. Operating Business Segments
 - 8.1.5. Product Portfolio
 - 8.1.6. Business Performance
 - 8.1.7. Key Strategic Moves and Developments
- 8.2. Fisher And Paykel Healthcare Limited.
 - 8.2.1. Company Overview
 - 8.2.2. Key Executives
 - 8.2.3. Company Snapshot
 - 8.2.4. Operating Business Segments
 - 8.2.5. Product Portfolio
 - 8.2.6. Business Performance
 - 8.2.7. Key Strategic Moves and Developments
- 8.3. Koninklijke Philips N.V.
 - 8.3.1. Company Overview
 - 8.3.2. Key Executives
 - 8.3.3. Company Snapshot
 - 8.3.4. Operating Business Segments
 - 8.3.5. Product Portfolio
 - 8.3.6. Business Performance
 - 8.3.7. Key Strategic Moves and Developments
- 8.4. Drägerwerk AG And Co. KGaA
 - 8.4.1. Company Overview
 - 8.4.2. Key Executives
 - 8.4.3. Company Snapshot
 - 8.4.4. Operating Business Segments
 - 8.4.5. Product Portfolio
 - 8.4.6. Business Performance
 - 8.4.7. Key Strategic Moves and Developments
- 8.5. Becton, Dickinson And Company
 - 8.5.1. Company Overview
 - 8.5.2. Key Executives
 - 8.5.3. Company Snapshot
 - 8.5.4. Operating Business Segments
 - 8.5.5. Product Portfolio
 - 8.5.6. Business Performance

- 8.5.7. Key Strategic Moves and Developments
- 8.6. Medtronic
 - 8.6.1. Company Overview
 - 8.6.2. Key Executives
 - 8.6.3. Company Snapshot
 - 8.6.4. Operating Business Segments
 - 8.6.5. Product Portfolio
 - 8.6.6. Business Performance
 - 8.6.7. Key Strategic Moves and Developments
- 8.7. ResMed
 - 8.7.1. Company Overview
 - 8.7.2. Key Executives
 - 8.7.3. Company Snapshot
 - 8.7.4. Operating Business Segments
 - 8.7.5. Product Portfolio
 - 8.7.6. Business Performance
 - 8.7.7. Key Strategic Moves and Developments
- 8.8. Hamilton Medical
 - 8.8.1. Company Overview
 - 8.8.2. Key Executives
 - 8.8.3. Company Snapshot
 - 8.8.4. Operating Business Segments
 - 8.8.5. Product Portfolio
 - 8.8.6. Business Performance
 - 8.8.7. Key Strategic Moves and Developments
- 8.9. Chart Industries
 - 8.9.1. Company Overview
 - 8.9.2. Key Executives
 - 8.9.3. Company Snapshot
 - 8.9.4. Operating Business Segments
 - 8.9.5. Product Portfolio
 - 8.9.6. Business Performance
 - 8.9.7. Key Strategic Moves and Developments
- 8.10. Invacare Corporation
 - 8.10.1. Company Overview
 - 8.10.2. Key Executives
 - 8.10.3. Company Snapshot
 - 8.10.4. Operating Business Segments
 - 8.10.5. Product Portfolio

8.10.6. Business Performance

8.10.7. Key Strategic Moves and Developments

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