

# **Bone Graft and Substitutes Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027**

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## **Abstracts**

The global bone graft and substitutes market reached a value of US\$ 2.8 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 4.0 Billion by 2027, exhibiting a CAGR of 6.2% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

Bone graft and substitutes are utilized for replacing missing bones or repairing bone fractures. They comprise an osteoconductive matrix that acts as a filler to promote wound healing; osteoinductive proteins which support mitogenesis of identical bone cells; and osteogenic cells that form the bone in the appropriate environment. They are bioresorbable in nature and cause no antigen-antibody reaction. Owing to these attributes, they are widely used for healing fractures and bone injuries, and in spinal, facial, foot, ankle or trauma surgeries.

One of the key trends witnessed in the market is the advent of new polymer and ceramic products that have biologically superior characteristics. The introduction of new manufacturing technologies, such as rapid prototyping or 3D printing, is also helping in the fabrication of free-form biomaterial scaffolds for tissue regeneration. Additionally, the demand for bone graft and substitutes is increasing owing to high morbidity rates, growing geriatric population and the increasing cases of osteoarthritis. Apart from this, a shift towards minimally invasive procedures, coupled with the growing awareness among patients about the benefits of bone regeneration through biologics is further strengthening the market growth. Some of the other growth-inducing factors include the availability of advanced products in different shapes and sizes, rising prevalence of orthopedic problems and periodontal diseases, and increasing number of studies for

investigating the enhancement of bioactivity of bone graft substitutes.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global bone graft and substitutes market, along with forecasts at the global and regional level from 2022-2027. Our report has categorized the market based on material type, application and end user.

#### Breakup by Material Type:

- Allografts
- Machined Allografts
- Demineralized Bone Matrix (DBMs)
- Bone Graft Substitutes
- Bone Morphogenic Proteins (BMPs)
- Synthetic Bone Grafts
- Cell-based Matrices
- Others

#### Breakup by Application:

- Spinal Fusion
- Trauma
- Joint Reconstruction
- Foot and Ankle
- Dental Bone Grafting
- Craniofacial
- Others

#### Breakup by End User:

- Hospitals
- Surgical Centres
- Clinics
- Others

#### Breakup by Region:

- North America
- Europe
- Asia Pacific

Middle East and Africa  
Latin America

#### Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Zimmer Biomet Dental, DePuy Synthes, Wright Medical Technology, Medtronic Plc., Stryker Corporation, NuVasive Inc., Arthrex Inc., Integra LifeSciences, Baxter International Inc., Musculoskeletal Transplant Foundation, Bacterin International Holdings, SeaSpine, LifeNet Health, etc.

#### Key Questions Answered in This Report:

How has the global bone graft and substitutes market performed so far and how will it perform in the coming years?

What are the key regional markets in the global bone graft and substitutes industry?

What has been the impact of COVID-19 on the global bone graft and substitutes industry?

What is the breakup of the market based on the material type?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the global bone graft and substitutes industry?

What are the key driving factors and challenges in the global bone graft and substitutes industry?

What is the structure of the global bone graft and substitutes industry and who are the key players?

What is the degree of competition in the global bone graft and substitutes industry?

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