

# Dental Bone Graft Substitutes Market by Type (Xenograft, Allograft, Synthetic Bone Grafts, Alloplast), Application (sinus Lift, Ridge Augmentation, Socket Preservation), Product (BioOss, Osteograft, Grafton), End User, Region- Global Forecast to 2029

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## Abstracts

The global dental bone graft substitute market is projected to reach USD 1.8 billion in 2029 from USD 1.3 billion in 2024, at a CAGR of 7.7% between 2024 and 2029.

The growing elderly population is more susceptible to tooth loss and jawbone deterioration, potentially requiring bone grafting procedures. Dental implants offer a natural-looking and functional tooth replacement option, driving the demand for bone grafts to support implant placement which further contributes to market growth. On the other hand, stringent regulatory compliance and complexities in supply chain management are expected to limit market growth to a certain extent.

“Based on the mechanism, the osteoconduction segment is expected to grow by the highest CAGR in the dental bone graft substitute market.”

Advancements in osteoconductive materials allow for the development of smaller and more manageable bone graft particles. This facilitates minimally invasive surgical techniques for bone grafting procedures, leading to faster patient recovery also osteoconductive materials provide a scaffold or framework for bone cells to grow on and migrate into. This stimulates the body's natural bone healing process, promoting the formation of new bone tissue which is expected to drive the market growth.

“The sinus lift segment in application segment is expected to grow with the highest CAGR in the dental bone graft substitute market.”

Dental bone graft substitutes play a crucial role in sinus lift procedures, a surgical technique used to increase jawbone height in the upper jaw before dental implant placement which is expected to drive the market growth. For instance, In autografts, the patient's own bone is used, usually from the tibia, hip, chin, or jaw. Even while autografts have a great potential for osteogenesis, their use can result in donor site morbidity and limited bone supply.

“Based on the type, synthetic bone graft segment is expected to grow by the highest CAGR in the dental bone graft substitute market.

Synthetic bone grafts are typically composed of biocompatible materials like hydroxyapatite (similar to the mineral component of natural bone), calcium phosphates, or biopolymers. These materials provide a scaffold for bone ingrowth, promoting new bone formation at the graft site which is expected to drive the dental bone graft substitute market.

“Based on the product, bio OSS segment is expected to grow by the highest CAGR in the dental bone graft substitute market.

Bio-Oss provides a framework for bone cells to migrate, attach, and proliferate, promoting bone regeneration, Bio-Oss is used to augment the jawbone ridge before dental implant placement, providing a strong foundation for the implant which is expected to drive the dental bone graft substitute market. The main ingredient of Bio-Oss is processed bovine cancellous bone particles through a patented method that eliminates organic materials while maintaining the mineral structure. As a result, a biocompatible scaffold that closely mimics human bone is created, creating the perfect setting for the synthesis of new bone.

“Based on the end user, hospital segment is expected to grow by the highest CAGR in the dental bone graft substitute market.

Dental bone graft substitutes are increasingly valuable tools in hospital dentistry, offering a range of benefits for patients undergoing dental implant procedures, oral surgery, and treatments for jawbone defects. As technology advances and costs become more manageable, these materials are likely to play an even more prominent role in improving patient outcomes and expanding treatment options which is expected to drive the dental bone graft substitute market.

“North America to grow with the second highest CAGR in the dental bone graft substitute market during the forecast period.”

The growing elderly population in North America is more susceptible to tooth loss and jawbone deterioration, potentially requiring bone grafting procedures to support dental implants or other restorative treatments are fueling the expansion of the dental bone graft substitute market in North America.

Europe was the second largest segment in the dental bone graft substitute market in 2023. The Germany accounted for the larger share of the European dental bone graft substitute market in 2023. The rising number of dental disorders and and growing awareness regarding dental bone graft substitute is expected to drive the market growth in European market.

A breakdown of the primary participants (supply-side) for the dental bone graft substitute market referred to for this report is provided below:

By Company Type: Tier 40%, Tier 35%, and Tier 25%

By Designation: C-level–30%, Director Level–55%, and Others–15%

By Region: North America–20%, Europe–15%, Asia Pacific–25%, Latin America-10%, Middle East & Africa-30%.

Prominent players in the dental bone graft substitute market include Dentsply Sirona Inc. (US), Envista Holdings Corporation (US), JOHNSON & JOHNSON (US), Stryker Corporation (US), Medtronic, Plc (Ireland), Institut Straumann AG (Switzerland), Zimvie Inc. (US), Henry Schein Inc. (US), RTI Surgical Holdings Inc.(US), Lifenet Health (US), Dentium (US), Geistlich Pharma AG (Switzerland), Integra Lifesciences Holdings Corporation (US), Tissue Regenix Group (UK), Kuraray Co. Ltd. (Japan), BEGO GmbH & Co. KG (Germany), Young Innovations (US), Keystone Dental (US), Novabone LLC. (US), Biotiss Biomaterials LLC (US), Collagen Matrix Inc.(US), Osteogenics Biomedical (US), Hannox International Corp.(Taiwan), Meyer Haake GMBH (Germany) and Arora Biosurgery Ltd. (New Zealand).

Research Coverage:

The report analyzes the dental bone graft substitute market and aims at estimating the

*Dental Bone Graft Substitutes Market by Type ( Xenograft, Allograft, Synthetic Bone Grafts, Alloplast), Applic...*

market size and future growth potential of this market based on various segments such as type, application, mechanism, product, end user and region. The report also includes a competitive analysis of the key players in this market along with their company profiles, product/service offerings, recent developments, and key market strategies.

### Reasons to Buy the Report

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall dental bone graft substitute market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

This report provides insights into the following pointers:

Analysis of key drivers (growing market for dental tourism in emerging countries, increasing disposable income in developing countries, rising cases of dental caries and the subsequent increase in tooth repair procedures, changing demographics), restraints (lack of proper reimbursement scenario, stringent regulations pertaining to medical devices used in dentistry, dearth of trained dental practitioners), opportunities (increasing demand from customers and rising inclination towards cosmetic dentistry, low penetration rates for dental bone graft substitutes, consolidation of dental practices and rising dso activity, growing demand for bone graft substitutes from emerging markets) and challenges (pricing pressure faced by prominent market players)

**Market Penetration:** It includes extensive information on product portfolios offered by the major players in the global dental bone graft substitute market. The report includes various segments in market type, application, mechanism, product, end user and region

**Product Enhancement/Innovation:** Comprehensive details about new product launches and anticipated trends in the global dental bone graft substitute market.

**Market Development:** Thorough knowledge and analysis of the profitable rising markets type, application, mechanism, product, end user and region

**Market Diversification:** Comprehensive information about newly launched product and services, expanding markets, current advancements, and investments in the global dental bone graft substitute market.

**Competitive Assessment:** Thorough evaluation of the market shares, growth plans, offerings of product and services, and capacities of the major competitors in the global dental bone graft substitute market.

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\*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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