

Global Bone Grafts Substitutes Market to Grow at 6.2% CAGR, Reaching USD 5.16 Billion by 2032

bone grafts substitutes market size was USD 3.0 billion in 2022 and is expected to reach USD 5.16 Billion in 2032, and CAGR of 6.2% during the forecast period.

NEW YORK, NY, UNITED STATES, May 3, 2023 /EINPresswire.com/ -- The [Global Bone Graft Substitutes Market](#) is a complex and rapidly growing industry, with a current size of USD 3.0 billion in

2022 and projected to reach USD 5.16 billion in 2032. This market is driven by a number of factors, including the rising prevalence of bone-related illnesses and injuries, advancements in bone grafting materials and methods, and the growing elderly population.



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The global bone grafts substitutes market size was USD 3.0 billion in 2022 and is expected to reach USD 5.16 Billion in 2032, and register a revenue CAGR of 6.2% during the forecast period.”

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One of the main contributors to bone-related ailments and injuries is osteoporosis, a condition that weakens bones and makes them more prone to fractures. The International Osteoporosis Foundation estimates that this condition affects about 200 million women worldwide. Additionally, the demand for bone graft alternatives is being driven by an increase in traffic accidents and sports-related injuries, as well as a desire for alternatives to bone transplants.

The use of 3D printing technology in bone grafting has made it possible to produce specialized alternatives with

superior mechanical and biocompatibility features, driving revenue growth of the market. New bone substitutes with improved osteoinductive and osteoconductive qualities are also being developed using biomaterials such as bioactive ceramics and polymers.

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The growing elderly population is another major factor driving revenue growth, with the United Nations projecting that there will be 1.5 billion people in this age group by 2050. This population is more prone to bone-related conditions, creating a high demand for alternatives to bone grafts.

Stringent government regulations addressing environmental degradation are also driving revenue growth by requiring the use of synthetic bone graft substitutes to decrease the environmental damage caused by using animal bones in natural bone graft substitutes. However, the high cost of bone graft substitutes and absence of reimbursement policies could restrain revenue growth, along with the availability of less expensive alternatives.

Overall, the global bone graft substitutes market is a dynamic and multifaceted industry with significant potential for growth, driven by a range of factors including scientific advancements, demographic trends, and regulatory requirements.

Segments Covered in the Report

The bone graft substitutes market can be divided into different types based on their origin and composition. Autografts, which are bone grafts taken from the same individual, have been a popular choice due to their low rejection rate. Allografts, on the other hand, are bone grafts sourced from a different individual of the same species, and are also widely used in bone graft procedures. Synthetic bone grafts, made from materials such as calcium phosphate and bioglass, are also becoming increasingly popular due to their ability to mimic the properties of natural bone.

Apart from these three major categories, there are also other types of bone graft substitutes available in the market, such as xenografts (bone grafts taken from a different species), and demineralized bone matrix (DBM) which is produced by removing minerals from bone tissue to make it more malleable.

The applications of bone graft substitutes are diverse, with spinal fusion being one of the most common uses. In this procedure, bone grafts are placed between vertebrae to promote fusion and stabilize the spine. Joint reconstruction is another major application, with bone grafts used to repair and replace damaged joints. Dental procedures also frequently make use of bone graft substitutes, particularly in the case of dental implants where bone grafts may be necessary to support the implant.

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Apart from these major applications, bone graft substitutes are also used in a range of other procedures such as facial reconstruction and trauma surgeries. With the growing elderly

population and rising prevalence of bone-related conditions, the demand for bone graft substitutes is expected to continue increasing across all applications. The development of new and innovative bone graft substitutes is likely to drive growth in the market, as is the increasing adoption of minimally invasive surgical procedures that require less invasive bone graft substitutes.

Strategic development:

In November 2020, Stryker Corporation made a major move to bolster its position in the bone graft substitutes market by acquiring Wright Medical Group N.V. Wright Medical is a renowned manufacturer of orthopedic implants and other medical devices, and the acquisition is expected to enhance Stryker's product portfolio in this sector. The move is also expected to further solidify Stryker's position as a leading player in the bone graft substitutes market.

On September 9, 2019, Zimmer Biomet launched its Persona Revision Knee System, which is a comprehensive system designed for complex knee revision procedures. The system includes a range of bone graft substitutes, including metal augments and porous metal cones. The Persona Revision Knee System is designed to provide a customized solution for each patient, with a range of implant options and bone graft substitutes available to suit different needs. The launch of this system is expected to expand Zimmer Biomet's presence in the bone graft substitutes market and drive growth in the coming years.

Competitive Landscape:

The global bone graft substitutes market is highly consolidated, with a few prominent companies holding a significant market share. These key players are employing various tactics such as mergers and acquisitions, strategic collaborations, developing innovative and efficient products, and expanding their distribution network to enhance their competitive position in the market. Major companies operating in this market include Medtronic plc, Stryker Corporation, Johnson & Johnson (DePuy Synthes), Zimmer Biomet, Danaher Corporation (Nobel Biocare), Dentsply Sirona, Baxter International, Orthofix Holdings, Inc., Wright Medical Group N.V., Osiris Therapeutics, Inc., and Integra LifeSciences.

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The market is highly competitive, and companies are investing heavily in research and development to introduce advanced bone graft substitutes that offer better performance and patient outcomes. For instance, in November 2020, Stryker Corporation acquired Wright Medical Group N.V. to strengthen its position in the bone graft substitutes market and expand its product portfolio. Similarly, in September 2019, Zimmer Biomet launched its Persona Revision Knee System, which includes a range of bone graft substitutes for complex knee revision procedures. The introduction of such innovative products is expected to drive market growth in the coming years.

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