

Spine Biologics Market to Reach \$5.2 Billion, Globally, by 2033 at 5.4% CAGR: Allied Market Research

PORTLAND, GA, UNITED STATES, December 9, 2024 /EINPresswire.com/ -- Allied Market Research published a report, titled, "[Spine Biologics Market by Product \(Spinal Allografts, Bone Graft Substitutes and Cell-Based Matrix\), and End User \(Hospitals and Outpatient Facilities\): Global Opportunity Analysis and Industry Forecast, 2024-2033](#)". According to the report, the spine biologics market by product was valued at \$3.1 billion in 2023, and is estimated to reach \$5.2 billion by 2033, growing at a CAGR of 5.4% from 2024 to 2033.



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Prime Determinants of Growth

The key factors driving the growth of global spine biologics market are rise in incidence of the spinal cord injury, surge in geriatric population, and technological advancement. Spinal cord injuries often result from traumatic events such as vehicle accidents, falls, sports injuries, and acts of violence, with their prevalence steadily rising. According to 2024 article by National Library of Medicine, approximately 17, 000 new spinal cord injury cases in the U.S. each year. These injuries frequently lead to severe complications, including chronic pain, paralysis, and loss of function, necessitating advanced and effective treatments. Spine biologics, which include bone graft substitutes, growth factors, and cell-based therapies, offer innovative solutions for promoting spinal fusion, enhancing bone regeneration, and accelerating the healing process. The rising demand for minimally invasive surgical procedures and the increasing awareness of the benefits of biologics in improving patient outcomes further propel the market growth.

Moreover, the technological advancement in the bone graft substitutes and spinal allografts significantly contributed in the increased adoption of the spine biologics. These innovations have

enhanced the effectiveness, safety, and application range of spine biologics, making them more appealing to both healthcare providers and patients. In bone graft substitutes, advancements include the development of synthetic materials such as bio ceramics, bioactive glass, and polymer-based grafts that mimic the natural bone structure and promote faster healing. These materials are designed to be osteoconductive, osteoinductive, and osteogenic, which means they support new bone growth, encourage bone formation, and contain cells that can develop into bone, respectively. Additionally, the introduction of advanced manufacturing techniques like 3D printing has enabled the creation of patient-specific grafts that fit precisely into the surgical site, improving outcomes and reducing recovery times. Similarly, spinal allografts have seen remarkable progress, with improved preservation techniques and sterilization methods that enhance the safety and viability of donor tissues. Enhanced screening processes and the development of minimally invasive surgical techniques have also reduced the risk of complications and improved patient outcomes. Thus, the technological advancement in the spine biologics products such as spine allografts and bone graft substitutes are expected to drive the growth of the market.

Segment Highlights

The spine allografts segment dominated market share in 2023

By product, spine allografts segment dominated the market share in 2023, owing to increasing prevalence of spinal disorders and injuries, driven by aging populations and sedentary lifestyles, has heightened the demand for effective and reliable treatment options. Furthermore, advances in tissue engineering and preservation techniques have improved the safety, efficacy, and availability of allograft materials, which results in the surge in adoption of the spine allograft.

Hospital segment is expected to register fastest growth during the forecast period

By end user, hospital segment dominated the market share in 2023. This is attributed to the fact that hospitals typically handle complex and high-volume spine surgeries and treatments, which inherently require advanced biologic products such as bone grafts, growth factors, and stem cells. Hospital possesses the necessary infrastructure, including advanced imaging technology and surgical equipment, to perform sophisticated spine procedures. Additionally, hospitals attract a higher number of patients due to their comprehensive care offerings, multidisciplinary teams, and reputation for handling severe and intricate cases. Moreover, hospitals often engage in clinical trials and research, promoting the adoption and utilization of cutting-edge biologic solutions.

Regional Outlook

In North America, particularly the U.S., the market growth is driven high incidence of the injuries and accidents leading to spinal cord injuries. The advanced healthcare infrastructure, significant healthcare expenditure, and widespread availability of spine biologics products contribute to its

strong market presence in this region. Europe also shows substantial market growth, driven by a well-established healthcare system and increasing incidence of traumatic injuries. Countries like Germany, France, and the UK are key markets within Europe, benefiting from high levels of healthcare access and aging population.

In the Asia-Pacific region, the spine biologics market is experiencing rapid expansion. This growth is fueled by developing healthcare infrastructure, and increasing healthcare expenditure. In addition, the rise in geriatric population is also expected to drive the growth of the market in the Asia-Pacific region.

Key Players:

Stryker

NuVasive, Inc

Orthofix

Johnson & Johnson

Exactech, Inc

Zimmer Biomet

Arthrex, Inc

Medtronic Plc

Organogenesis Inc

Kuros Biosciences

The report provides a detailed analysis of these key players in the global spine biologics market. These players have adopted different strategies such as product launch, business expansion and product approval to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

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Recent Development

In October 2023, Orthofix Medical Inc., a major provider of spine and orthopedics products, announced the full commercial launch and 510k clearance of an advanced bioactive synthetic graft, OsteoCove, for use in orthopedic and spine procedures. The product is available in both strip and putty configurations.

In July 2023, Cerapedics Inc., a major provider of bone grafts, expanded its headquarters in the Denver metro area. This expansion is expected to support the company's portfolio of various products, including i-FACTOR bone grafts that can be used for cervical spinal fusion.

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