

# Orthobiologics Market to Hit \$7.85B by 2032, Driven by Aging Population and Regenerative Medicine Advances

*DataM Intelligence forecasts 4.6% CAGR through 2032 as demand surges for minimally invasive orthopedic care and biologic-based therapies.*

LOS ANGELES, CA, UNITED STATES, July 29, 2025 /EINPresswire.com/ -- The global [orthobiologics market size](#) was valued at US\$ 5.26 billion in 2023 and is expected to reach approximately US\$ 7.85 billion by 2032, growing at a compound annual growth rate (CAGR) of 4.6% between 2024 and 2032.



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## Key Market Drivers:



Orthobiologics are reshaping orthopedic care with faster healing, fewer complications, and personalized treatment options."

*DataM Intelligence*

- **Aging Population and Increasing Orthopedic Disorders**  
The global rise in the elderly population has led to a higher incidence of musculoskeletal disorders such as osteoarthritis and degenerative disc disease. This demographic shift is significantly fueling the demand for orthobiologic solutions like bone grafts, platelet-rich plasma (PRP), and stem cell-based therapies.
- **Growth in Sports Injuries and Trauma Cases**

With more people participating in sports and physical fitness activities, the occurrence of ligament tears, fractures, and joint injuries has increased. Orthobiologics are widely used for faster recovery and improved healing in such cases, driving market growth.

- Shift Toward Minimally Invasive Procedures

Minimally invasive orthopedic surgeries are becoming increasingly popular due to their advantages such as reduced hospital stays, quicker recovery, and minimal scarring.

Orthobiologics play a crucial role in enhancing the effectiveness of these procedures, supporting their wider adoption.

- Technological Advancements in Regenerative Medicine

Continued innovation in stem cell research, biomaterials, and 3D printing has expanded the capabilities of orthobiologic products. These technological advancements are enabling the development of next-generation therapies that offer better integration, faster healing, and reduced complications.

- Rising Demand for Personalized and Biologic-Based Therapies

There is a growing shift from synthetic implants to biologic-based solutions that align more closely with the body's natural healing process. Personalized orthobiologic treatments are gaining traction as they offer improved outcomes and reduce the risk of immune reactions.

#### Market Segments:

- By Product (Bone Morphogenetic Proteins (BMP), Demineralized Bone Matrix (DBM), Synthetic Bone Substitutes, Viscosupplements, Allografts, Stem cell, Others)
- By Application (Osteoarthritis & Degenerative Arthritis, Spinal Fusion, Fracture Recovery, Soft Tissue Injuries, Maxillofacial & Dental Applications)
- By End User (Hospitals, Orthopedic Clinics, Dental Clinics, Others)
- By Region (North America, Latin America, Europe, Asia Pacific, Middle East, and Africa)

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#### Market Geographical Share:

The orthobiologics market demonstrates notable geographical segmentation, with North America maintaining a dominant position. This leadership is primarily attributed to the high volume of orthopedic procedures, advanced healthcare infrastructure, growing elderly population, and favorable reimbursement policies in the United States and Canada. Additionally, the early adoption of innovative biologics and regenerative therapies further strengthens the region's market position.

Europe follows closely, driven by an increasing focus on minimally invasive orthopedic treatments, robust R&D activities, and rising demand for bone graft substitutes. Countries like Germany, the UK, and France are witnessing a steady increase in spinal and joint replacement surgeries, contributing to the region's market growth.

The Asia-Pacific region is expected to experience the fastest growth over the coming years. Key contributing factors include a growing population base, increasing awareness about

orthobiologic therapies, rising healthcare expenditure, and a surge in sports-related injuries. Rapid urbanization and government initiatives to enhance healthcare access in countries such as China, India, and South Korea are also accelerating the market expansion. Latin America and the Middle East & Africa represent emerging markets with rising demand for orthopedic care. While these regions currently hold a smaller share, investments in healthcare infrastructure and partnerships with global manufacturers are gradually boosting growth potential.

#### Market Key Players:

Key players are Stryker, Zimmer Biomet., Arthrex Inc, Sanofi, Anika Therapeutics, Inc., Ferring, Bioventus LLC, SeaSpine, Globus Medical, Xtant Medical, Isto Biologics, LocateBio, Kuros Biosciences A.G, OssDsign AB, and Octane Medical Group Inc.

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#### Product Launches & Innovation:

- LifeNet Health + Johnson & Johnson MedTech launched PliaFX Pak (Aug 2024) in the U.S. a moldable bone allograft combining mineralized chips and fibers for spine and trauma procedures.
- Xtant Medical introduced OsteoVive Plus (Sept 2024), using proprietary cohesive fiber technology to enhance graft moldability and stability.
- Stryker added two new Foot & Ankle systems the Ankle Truss System (ATS) and Osteotomy Truss System (OTS) acquired via 4WEB Medical integration and showcased at AOFAS in Sept 2024.

#### Mergers & Acquisitions:

- Zimmer Biomet acquired Embody, Inc. (Feb 2023) for US\$155 million to expand collagen based soft tissue healing biologics; integration is ongoing in 2025 strategy.
- Orthofix Medical merged with SeaSpine: Aims to integrate bone growth therapies with hardware and biologics capabilities, enhancing spinal fusion offerings.
- LifeNet Health divested its orthobiologics division to Berkeley Biologics (GNI Group subsidiary), receiving US\$15 million upfront and additional contingent payments marking a strategic shift.

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Sai Kiran

DataM Intelligence 4Market Research

+1 877-441-4866

Sai.k@datamintelligence.com

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