

Orthobiologics - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

Orthobiologics Market Analysis

The orthobiologics market size is USD 6.68 billion in 2025 and is forecast to reach USD 9.06 billion by 2030, reflecting a 6.28% CAGR. Growth stems from the steady move away from open surgery toward biologically driven, minimally invasive care that speeds healing and improves long-term function. Pay-for-outcome models, a spike in sports-related injuries, and expanding outpatient surgery networks are channeling demand toward easy-to-handle injectable and synthetic graft products. North America retains leadership on the back of favorable coverage and deep clinical expertise, while Asia-Pacific is accelerating as local device makers scale up production and regulators streamline approvals. Competitive rivalry is sharpening as large device companies widen regenerative portfolios and agile start-ups introduce peptide scaffolds and digital-planning platforms that challenge legacy grafts.

Global Orthobiologics Market Trends and Insights

Surge in High-Performance Sports Medicine Procedures Requiring Rapid Biological Healing

Demand from athletes and active adults is boosting platelet-rich plasma (PRP) and mesenchymal stem cell (MSC) use. Randomized studies now show superior symptom relief and faster tissue recovery versus corticosteroids in lateral epicondylitis and knee osteoarthritis. Team physicians are moving these biologics to first-line therapy, shortening rehabilitation and supporting an early return to play across competitive leagues.

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Accelerated Adoption of Hyaluronic-Acid Multi-Injection Protocols in Osteoarthritis Management

Novel classification tools such as ViSCNOVAS guide clinicians to choose the most effective formulation by viscosity and cross-linking features, improving clinical consistency. Large orthopedic practices in Japan and the United States now favor three-injection regimens that show longer pain relief and joint function gains compared with single-shot products.

Absence of Reimbursement Frameworks for Autologous Cell-Based Orthobiologics Elevating Out-of-Pocket Costs

Major insurers still label many MSC injections as investigational. Patients therefore self-pay, which restricts access to higher socioeconomic groups and slows routine adoption.

Other drivers and restraints analyzed in the detailed report include:

Rising Integration of Orthobiologics Adjuncts in Spinal Fusion to Reduce Revision Surgery Rates / Expanding Clinical Evidence Supporting PRP and Cell-Based Therapies in Orthopedic Clinics / Stringent and Evolving Biologics Regulatory Classification
Increasing Time-To-Market for Novel Products /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Viscosupplementation commanded 61.34% of orthobiologics market share in 2024 and remained a mainstay for knee osteoarthritis thanks to established payer coverage and predictable outcomes. The orthobiologics market size tied to viscosupplementation is set to climb steadily as multi-injection protocols demonstrate durable relief. Parallel research into cross-linked formulations is extending dwell time inside the joint space, creating premium tiers that hospital formularies are adopting.

Stem cell therapies hold only a mid-single-digit revenue base in 2025 yet are posting a 9.20% CAGR, the fastest within the product mix. FDA approval of Ryoncil validated allogeneic platforms, while automated bioreactors like Cocoon promise lower batch-to-batch variation and cost. Demineralized bone matrix, allografts, and bone morphogenetic proteins remain important for surgeons managing complex fusions, with Renovos' peptide-anchored BMP-2 poised to enter U.S. distribution once pivotal data mature.

Knee procedures accounted for 35.29% of 2024 revenue, underpinned by the high incidence of osteoarthritis and ligament injuries among aging yet active populations. Clinical guidelines now place PRP ahead of corticosteroids for degenerative knee disease, lifting unit volumes.

The foot and ankle segment holds a smaller base but is on track for an 8.74% CAGR as physicians apply biologics to Achilles and mid-foot reconstruction where traditional grafts underperform. Spine remains core because of fusion necessity, and hip, shoulder, and elbow continue to gain share as sports surgeons broaden rotator cuff and labral repair protocols.

The Orthobiologics Market Report is Segmented by Product (Viscosupplementation Products and More), Surgical Site (Knee, Hip, and More), Delivery Method (Injectable Biologics and More), Application (Spinal Fusion and More), End-User (Hospitals & Orthopedic Centers, Ambulatory Surgical Centers, and More), and Geography (North America, Europe, Asia-Pacific, and More). The Market Forecasts are Provided in Terms of Value (USD).

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Geography Analysis

North America accounted for 43.52% of 2024 global revenue. Uptake in the United States is reinforced by a mature reimbursement framework for viscosupplementation and rapid procedure migration to ambulatory centers. The orthobiologics market size in the U.S. is expanding at 5.86% CAGR as breakthrough designations shorten the time to launch for synthetic grafts like RENOVITE BMP-2. Canada mirrors these trends, with provincial plans gradually adding PRP for knee osteoarthritis.

Europe ranks second and is growing at 6.19% CAGR. Adoption is steady in Germany, France, and Italy, where state health systems reimburse established grafts. Compliance work for new SoHO rules is extending approval cycles for tissue-derived therapies, so firms such as Bonesupport are prioritizing synthetic matrices that clear under device codes. Nordic countries lead registry-based evidence generation that bolsters payer confidence.

Asia-Pacific is the fastest riser at 8.62% CAGR. Japan's multi-injection hyaluronic acid protocols set clinical benchmarks, while China's "Healthy China 2030" roadmap is spurring domestic innovators to upgrade from commodity allografts to advanced peptide scaffolds. India's MedTech policy aims to scale the sector to USD 50 billion by 2030, opening local manufacturing incentives for orthobiologics. Smaller yet high-growth markets in South America and the Middle East benefit from rising private insurance coverage and specialist clinic networks that import ready-to-use injectables.

List of Companies Covered in this Report:

Acumed / AlloSource / Arthrex / Bioventus Inc. / BoneSupport AB / Cerapedics Inc. / Globus Medical / Integra LifeSciences Holdings Corp. / Isto Biologics / Johnson & Johnson / Kuros Biosciences AG / Medtronic / MTF Biologics / NuVasive / Organogenesis / Orthofix / Royal Biologics Inc. / Stryker / Terumo / Zimmer Biomet /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
3 months of analyst support /

Table of Contents:

1 Introduction

1.1 Study Assumptions & Market Definition

1.2 Scope of the Study

2 Research Methodology

3 Executive Summary

4 Market Landscape

4.1 Market Overview

4.2 Market Drivers

4.2.1 Surge in High-Performance Sports Medicine Procedures Requiring Rapid Biological Healing

4.2.2 Accelerated Adoption of Hyaluronic Acid-based Multi-Injection Viscosupplementation Protocols in Osteoarthritis Management

4.2.3 Rising Integration of Orthobiologic Adjuncts in Spinal Fusion to Reduce Revision Surgery Rates

4.2.4 Expanding Clinical Evidence Supporting PRP and Cell-Based Therapies in Orthopedic Clinics

4.2.5 Industry Shift Toward Outpatient Centers Driving Demand for Injectables and Ready-to-Use Bone Graft Substitutes

4.2.6 Rapid Pipeline of Next-Generation Synthetic Peptide Bone Grafts Approved Under Expedited Regulatory Pathways

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4.3 Market Restraints

4.3.1 Absence of Reimbursement Frameworks for Autologous Cell-Based Orthobiologics Elevating Out-of-Pocket Costs

4.3.2 Stringent and Evolving Biologics Regulatory Classification Increasing Time-to-Market for Novel Products

4.3.3 High Batch-to-Batch Variability and Lack of Standardization in PRP/Stem Cell Preparations Undermining Clinician Confidence

4.3.4 Price Intensity from Commodity Allograft Providers Limiting Premium Adoption of Advanced Growth-Factor Formulations

4.4 Supply Chain Analysis

4.5 Regulatory Outlook

4.6 Technological Outlook

4.7 Porter's Five Forces

4.7.1 Threat of New Entrants

4.7.2 Bargaining Power of Buyers

4.7.3 Bargaining Power of Suppliers

4.7.4 Threat of Substitutes

4.7.5 Intensity of Competitive Rivalry

5 Market Size & Growth Forecasts (Value)

5.1 By Product

5.1.1 Viscosupplementation Products

5.1.2 Demineralized Bone Matrix

5.1.3 Allografts

5.1.4 Synthetic Bone Substitutes

5.1.5 Bone Morphogenetic Proteins

5.1.6 Platelet-Rich Plasma

5.1.7 Stem Cell Therapies

5.1.8 Other Orthobiologics

5.2 By Surgical Site

5.2.1 Knee

5.2.2 Hip

5.2.3 Spine

5.2.4 Shoulder & Elbow

5.2.5 Foot & Ankle

5.2.6 Other Joints

5.3 By Delivery Method

5.3.1 Injectable Biologics

5.3.2 Implantable/Scaffold Grafts

5.3.3 Topical & Surface Coatings

5.4 By Application

5.4.1 Spinal Fusion

5.4.2 Sports Soft-Tissue Injuries

5.4.3 Trauma & Fracture Recovery

5.4.4 Other Applications

5.5 By End-User

5.5.1 Hospitals & Orthopedic Centers

5.5.2 Ambulatory Surgical Centers

5.5.3 Sports Medicine & Rehabilitation Clinics

5.5.4 Other End-Users

5.6 By Geography (Value)

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- 5.6.1 North America
 - 5.6.1.1 United States
 - 5.6.1.2 Canada
 - 5.6.1.3 Mexico
- 5.6.2 Europe
 - 5.6.2.1 Germany
 - 5.6.2.2 United Kingdom
 - 5.6.2.3 France
 - 5.6.2.4 Italy
 - 5.6.2.5 Spain
 - 5.6.2.6 Rest of Europe
- 5.6.3 Asia-Pacific
 - 5.6.3.1 China
 - 5.6.3.2 Japan
 - 5.6.3.3 India
 - 5.6.3.4 Australia
 - 5.6.3.5 South Korea
 - 5.6.3.6 Rest of Asia-Pacific
- 5.6.4 Middle East & Africa
 - 5.6.4.1 GCC
 - 5.6.4.2 South Africa
 - 5.6.4.3 Rest of Middle East & Africa
- 5.6.5 South America
 - 5.6.5.1 Brazil
 - 5.6.5.2 Argentina
 - 5.6.5.3 Rest of South America

6 Competitive Landscape

6.1 Market Concentration

6.2 Competitive Benchmarking

6.3 Market Share Analysis

6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products & Services, and Recent Developments)

6.4.1 Acumed LLC

6.4.2 AlloSource

6.4.3 Arthrex Inc.

6.4.4 Bioventus Inc.

6.4.5 BoneSupport AB

6.4.6 Cerapedics Inc.

6.4.7 Globus Medical Inc.

6.4.8 Integra LifeSciences Holdings Corp.

6.4.9 Isto Biologics

6.4.10 Johnson & Johnson

6.4.11 Kuros Biosciences AG

6.4.12 Medtronic PLC

6.4.13 MTF Biologics

6.4.14 NuVasive Inc.

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- 6.4.15 Organogenesis Holdings Inc.
- 6.4.16 Orthofix Medical Inc.
- 6.4.17 Royal Biologics Inc.
- 6.4.18 Stryker Corporation
- 6.4.19 Terumo Corporation
- 6.4.20 Zimmer Biomet Holdings Inc.

7 Market Opportunities & Future Outlook

7.1 White-Space & Unmet-Need Assessment

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