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Global Veterinary Orthobiologics Market Size study, by Product (Instruments, Implants), Application (Total Knee Replacement, Total Hip Replacement, Total Elbow Replacement), Animal Type (Companion, Livestock), End User (Hospitals, Clinics), and Regional Forecasts 2022-2032

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Abstracts

Global Veterinary Orthobiologics Market is valued approximately at USD 0.59 billion in 2023 and is anticipated to grow with a promising compound annual growth rate of more than 8.40% over the forecast period 2024-2032. As the global animal healthcare ecosystem transitions toward integrative and regenerative therapies, veterinary orthobiologics has emerged as a breakthrough solution in orthopedic veterinary medicine. These biologically derived materials are increasingly being employed to promote faster healing and restore musculoskeletal integrity in companion and livestock animals undergoing major orthopedic procedures like joint replacements. By leveraging natural biological substances—ranging from bone grafts to growth factors—veterinary orthobiologics are dramatically reshaping surgical outcomes, minimizing inflammation, and accelerating tissue regeneration in veterinary patients.

This transformative market is underpinned by the escalating demand for advanced orthopedic treatments in the wake of rising pet adoption and a surge in musculoskeletal disorders among aging companion animals. Furthermore, with livestock animals playing a critical role in agricultural economies, veterinarians are turning to orthobiologics to extend the productive lifespan of high-value cattle and equines. The increasing acceptance of minimally invasive surgical techniques and biologics-based therapies has triggered a marked shift from traditional implant-focused strategies to regenerative options, especially in developed markets. Additionally, expanding veterinary

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infrastructure and R&D initiatives are channeling innovations into next-generation implants, injectable orthobiologics, and tailored surgical kits that offer precision and compatibility across species.

Despite its vast potential, market growth is tempered by a variety of obstacles. The high cost of advanced orthobiologic products, coupled with limited reimbursement policies and procedural complexities, pose significant adoption challenges—particularly in price-sensitive or rural veterinary practices. Moreover, the lack of uniform regulatory frameworks across regions continues to hinder the seamless approval and commercialization of cutting-edge biologics. Nonetheless, growing awareness among pet owners and livestock handlers about the long-term benefits of biologics-based treatments is gradually offsetting these barriers. Emerging clinical studies continue to validate the safety and efficacy of orthobiologic products, fostering greater trust among veterinary surgeons and stakeholders.

What sets this market apart is its synergy with veterinary digital health technologies and data analytics. With the integration of smart implants, AI-based surgical planning, and post-operative monitoring platforms, veterinary orthobiologics is evolving into a data-enabled ecosystem. These advancements are enabling practitioners to personalize treatment regimens, track healing milestones in real-time, and adjust rehabilitation protocols based on dynamic recovery metrics. Research efforts are increasingly focused on biologically active scaffolds, 3D-printed implants, and biomimetic composites—advancements that promise to redefine the frontier of orthopedic veterinary care in the coming decade.

Regionally, North America held the dominant market share in 2023, owing to a robust base of veterinary hospitals, increasing pet healthcare expenditures, and high awareness among pet owners. The presence of major manufacturers and a favorable reimbursement landscape further cement the region’s leadership. Europe trails closely, driven by sophisticated veterinary standards and widespread clinical trials involving orthobiologic applications. Meanwhile, the Asia Pacific region is expected to witness the fastest CAGR during the forecast period, buoyed by expanding veterinary services in countries like China, India, and Australia, alongside government-backed livestock welfare initiatives. Latin America and the Middle East & Africa are also emerging as attractive markets due to rising veterinary accessibility and the gradual modernization of animal care frameworks.

Major market player included in this report are:

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Arthrex, Inc.

Zoetis Inc.

DePuy Synthes (Johnson & Johnson)

Bioventus LLC

VetStem Biopharma, Inc.

Vetherapy

Cellmedica Ltd.

Acell Inc.

Biogennix, LLC

Medtronic plc

SigmaGraft Biomaterials

Parcus Medical, LLC

Kyon Veterinary Surgical Products

Companion Regenerative Therapies

Noraker

The detailed segments and sub-segment of the market are explained below:

By Product

Instruments

Implants

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By Application

- Total Knee Replacement
- Total Hip Replacement
- Total Elbow Replacement

By Animal Type

- Companion
- Livestock

By End User

- Hospitals
- Clinics

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France

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- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

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Years considered for the study are as follows:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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CHAPTER 10. COMPETITIVE INTELLIGENCE

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CHAPTER 11. RESEARCH PROCESS

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