Global Orthopaedic Biomaterials Market Report and Forecast 2024-2032

Market Report | 2023-12-04 | 165 pages | EMR Inc.

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Report description:

Global Orthopaedic Biomaterials Market Report and Forecast 2024-2032
Market Outlook
According to the report by Expert Market Research (EMR), the global orthopaedic biomaterials market is projected to grow at a CAGR of 10.4% between 2024 and 2032. Aided by the technological advancements in orthopaedic treatments and a growing geriatric population, the market is expected to grow significantly by 2032.
Orthopaedic biomaterials, essential components in orthopaedics, are substances that have been engineered to interact with biological systems for medical purposes. These biomaterials are pivotal in the treatment and repair of damaged bones, cartilage, ligaments, and tendons. They can be natural or synthetic, biodegradable, or non-biodegradable, each serving specific therapeutic requirements.
The geriatric population, globally, is on a remarkable rise. With age comes a myriad of orthopaedic challenges, from osteoarthritis to osteoporosis and fractures. The demand for orthopaedic biomaterials in joint replacements, spinal surgeries, and fracture-fixing devices has surged significantly due to these prevalent conditions. Moreover, the increasing awareness of minimally invasive surgeries is posing a positive impact on the orthopaedic biomaterials market outlook.
The versatility of orthopaedic biomaterials is evident in their applications. In the realm of bone regeneration, calcium phosphate ceramics, like hydroxyapatite, have garnered substantial attention due to their bone-bonding abilities. Metal alloys, primarily composed of titanium, cobalt, and chromium, have become synonymous with joint replacement surgeries. Moreover, biodegradable polymers are seeing a revolutionary demand for scaffolding in tissue engineering.
Research and development initiatives in the orthopaedic realm are impacting the orthopaedic biomaterials market growth. The advent of nanotechnology in biomaterials is paving the way for enhanced bone regeneration, offering better osteointegration and minimal inflammatory responses. Furthermore, 3D printing technology, paired with customised orthopaedic biomaterials, is ushering in an era of tailored orthopaedic solutions that fit individual patient needs.
Another pivotal growth factor is the evolving global focus on sports and physical fitness, which is boosting the orthopaedic biomaterials market demand. Athletic injuries, unfortunately, are a concomitant aspect of sports. Torn ligaments, fractured bones, and damaged cartilage demand state-of-the-art orthopaedic interventions. The dependency on orthopaedic biomaterials, in this light, becomes indisputable.

Additionally, the growing trend of biocompatibility in medical devices has cast a spotlight on orthopaedic biomaterials. The surge in research surrounding bioactive glasses and their bone-healing process is a testament to this trend. Moreover, the quest for better, safer, and more resilient materials, with fewer side effects, is intensifying, catalysing rigorous research and innovation in the sector.

Market Segmentation

The market can be divided based on type, application, and region.

Market Breakup by Type

-Ceramics and Bioactive Glass Biomaterials
-Polymers Biomaterials
-Calcium Phosphate Cement
-Metal Biomaterials
-Composites

Market Breakup by Application

-Orthopaedic Implants
-Joint Replacement/Reconstruction
-Orthobiologics
-Viscosupplementation
-Bio-Resorbable Tissue Fixation

Market Breakup by Region

-North America
-Europe
-Asia Pacific
-Latin America
-Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global orthopaedic biomaterials market. Some of the major players explored in the report by Expert Market Research are as follows:

-DSM Biomedical B.V
-Evonik Industries AG
-Stryker Corporation
-Zimmer Biomet Holdings Inc.
-Exactech, Inc.
-CAM Bioceramics B.V.
-DePuy Synthes (Johnson & Jhonson)
-Invibio Limited
-Globus Medical
-Others

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