

North America Bone Cement Market Report and Forecast 2025-2034

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Report description:

The North America bone cement market was valued at USD 349.02 Million in 2024, driven by the increasing number of joint replacement surgeries and rising advancements in bone cement formulations in the region. The market is expected to grow at a CAGR of 5.80% during the forecast period of 2025-2034, reaching a value of USD 613.35 Million by 2034.

North America Bone Cement Market Overview

Bone cement is a biomaterial created by mixing a liquid phase and a powder phase which is then formed into a plastic paste. It has the ability to self-set after it has been implanted within the body. It is used in various trauma and orthopedic surgeries for implant fixation, primarily for the fixation of joint prostheses. Bone cement has been used for anchoring artificial joints such as shoulder, hip, elbow, and knee joints.

The North America bone cement market demand is driven by the growing aging population which is at a higher risk of developing osteoarthritis and other degenerative bone diseases. This increases the demand for joint replacement surgeries that often require the use of bone cement. Moreover, older adults are more susceptible to fractures which frequently need a surgical intervention that relies on bone cement for stabilization and healing. Improved diagnostic capabilities for bone diseases and heightened public awareness significantly aid to the expansion of the global bone cement market. Other factors that shape the market dynamics include the rising development of new formulations such as antibiotic-loaded bone cement and bioactive cement, the increasing incidence of sports injuries, and the expansion of specialized orthopedic centers.

North America Bone Cement Market Growth Drivers

Increased Regulatory Approvals to Affect the Market Landscape Significantly

In April 2024, United States-based orthopedic company OsteoRemedies LLC received the U.S. Food and Drug Administration (FDA) approval for expanded indications of its dual antibiotic bone cement containing vancomycin and gentamicin called SPECTRUM GV

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Bone Cement. The expanded indication that was granted FDA clearance includes the fixation of revision hip arthroplasty components. OsteoRemedies' SPECTRUM GV Bone Cement is known to prevent bacterial adhesion of susceptible organisms, methicillin-resistant staphylococcal infections, and intermediate-resistant. The growth in such regulatory approvals is expected to influence market adoption and trust in advanced bone cement products, which is poised to impact the market dynamics.

North America Bone Cement Market Trends

The market is witnessing several trends and developments to improve the current global scenario. Some of the notable trends are as follows:

Shift Towards Minimally Invasive Surgical Techniques

The rising preference for minimally invasive techniques such as vertebroplasty and kyphoplasty to treat vertebral compression fractures is a major trend aiding the market growth. These procedures rely heavily on bone cement and thereby augment market demand.

Increased Volume of Arthroplasty Procedures

The increasing prevalence of joint diseases like osteoarthritis and rheumatoid arthritis is resulting in a higher number of arthroplasty procedures. This amplifies the market demand. The procedure requires bone cement and is used for the restoration or realignment of joints to facilitate normal functioning.

Advancements in Bone Cement Formulations

The North America bone cement market share is influenced by the rising innovations in bone cement formulations such as the development of antibiotic-loaded bone cement which helps in reducing the risk of post-surgical infections. In addition, bioactive bone cements that promote bone growth and osseointegration are experiencing significant market demand.

Rising Cases of Osteoporosis

There are rising cases of osteoporosis globally which is characterised by deterioration of bone tissue and low bone density. This is also increasing the risk of fracture among osteoporosis-affected individuals, which bolsters the demand for bone cement in healthcare settings.

North America Bone Cement Market Segmentation

The EMR's report titled "North America Bone Cement Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Product

- Calcium Phosphate Cement (CPC)
- Glass Polyalkenoate Cement
- Polymethyl Methacrylate (PMMA) Cement

Market Breakup by Application

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- Kyphoplasty
- Arthroplasty
- Vertebroplasty

Market Breakup by End User

- Hospital
- Ambulatory Surgical Centres
- Clinics

Market Breakup by Country

- United States
- Canada

North America Bone Cement Market Share

Polymethyl Methacrylate (PMMA) Cement Segment Expected to Lead the Market Share

Based on the product, the market can be divided into calcium phosphate cement (CPC), glass polyalkenoate cement, and polymethyl methacrylate (PMMA) cement. Polymethyl methacrylate (PMMA) cement accounts for a large share of the market because of its brilliant mechanical properties. It also has minimal toxicity and inert properties which make it suitable for hip-joint transplants. It is further expanding in the market because of its extensive use in various orthopedic procedures such as kyphoplasty, vertebroplasty, and arthroplasty.

Calcium phosphate cement (CPC) is biocompatible and expected to witness substantial North America bone cement market growth, owing to its properties such as moldability and injectability. However, they are primarily used in maxillo-facial and cranial surgeries due to the low level of mechanical strength of CPC. Research and development activities are focused on enhancing the microporosity in order to improve the degradation level.

Market Segmentation Based on Application Areas is Anticipated to Witness Substantial Growth

By application, the bone cement market in North America is segmented into kyphoplasty, arthroplasty, and vertebroplasty. Arthroplasty has held a leading share of the North America market and is expected to continue holding a larger market share. It is used in situations where medical treatments don't prove to be effective in relieving pain and restoring the functioning of a joint. They are believed to be great alternatives and are thus gaining popularity among patients and doctors.

Kyphoplasty is a new technique in the North America bone cement market which is developed in order to treat pain caused by vertebral body compression fractures. It is also capable of restoring the height of damaged vertebrae. Its effectiveness is under debate, however, improvements in technique may improve the market share of kyphoplasty in coming years.

North America Bone Cement Market Analysis by Region

Based on the region, the market is segmented into the United States and Canada. The United States dominates the market share due to the increasing number of orthopedic surgeries, the growing aging population, and the rising advancements in bone cement formulations and application techniques. The presence of a well-established healthcare infrastructure and the key market players in the region also propels the market growth.

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In Canada, the bone cement market is steadily growing driven by intensive research and development activities and increased healthcare initiatives and fundings for advanced medical treatments.

Leading Players in the North America Bone Cement Market

The key features of the market report comprise the patent analysis, funding and investment analysis, and strategic initiatives by the leading players. The major companies in the market are as follows:

Johnson & Johnson MedTech (Depuy Synthes)

Johnson & Johnson MedTech (Depuy Synthes) is a medical equipment manufacturing company that designs, manufactures, and distributes medical supplies and devices including bone cement products. They provide MedTech solutions, orthopaedic solutions, and also offers innovative and connected care to patients globally. It is headquartered in Massachusetts, United States, and was founded in 1895.

Stryker Corporation

Stryker Corporation was established in 1941 and is headquartered in Michigan, United States. It is a medication company that manufactures medical devices and equipment in order to make healthcare better and improve patient and hospital outcomes. It mainly offers products for neurotechnology, surgery, and orthopedics. Its hydroxyapatite bone cements are used widely for cranial applications.

Zimmer Biomet Holdings, Inc

Zimmer Biomet Holdings, Inc., founded in 1927 and based in Indiana, significantly contributes to the North America bone cement market share. The company is focused on the effective designing, manufacturing, and marketing of devices that will be helpful for orthopedic clinicians and surgeons in improving the quality of life of patients. It sells a broad range of orthopedic products, including bone cement.

Smith & Nephew plc

Leading medical equipment manufacturing company Smith & Nephew plc, also known as Smith+Nephew has a prominent presence in the market. It offers a strong portfolio focused on the regeneration, repair, and replacement of hard and soft tissue. The company focuses on biocompatibility and safety in their bone cement formulations to reduce the risk of adverse reactions.

Other key players in the market include Medtronic plc, DJO, LLC, Globus Medical, Inc., Arthrex, Inc., Cardinal Health, Inc., and Heraeus Medical LLC.

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