

Bone cement and glue Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2019-2029 Segmented By Type (bone cement (polymethyl methacrylate (PMMA) cement, calcium phosphate cement (CPC) and glass polyalkenoate cement (GPC)), bone glue (natural bone glue and synthetic bone glue)), By Application (arthroplasty, total knee arthroplasty, total hip arthroplasty, total shoulder arthroplasty, kyphoplasty, vertebroplasty), By End use (Hospitals & Clinics, Ambulatory Care Centers, Others), By Region and Competition

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Abstracts

Global Bone Cement and Glue Market was valued at USD 1.52 Billion in 2023 and is anticipated to project steady growth in the forecast period with a CAGR of 5.25% through 2029. The global Bone Cement and Glue Market has been steadily growing in recent years, driven by an aging population, an increase in orthopedic procedures, and advancements in medical technology. Bone cement and glue play a crucial role in orthopedic surgeries, offering stability and support in various applications, including joint replacements, fractures, and spinal surgeries. Bone cement and glue are essential components in orthopedic procedures, helping to anchor prosthetic implants and stabilize fractures. These materials are typically made from polymethylmethacrylate (PMMA) or calcium phosphate. While PMMA bone cement has been the traditional choice, newer options such as calcium phosphate-based cements have gained popularity due to their biocompatibility and resorbable properties.

The global demographic shift towards an aging population has increased the prevalence of orthopedic disorders, such as osteoarthritis and osteoporosis. As a result, there is a growing demand for joint replacement surgeries, which rely on bone cement and glue for secure implant fixation. The orthopedic industry has seen significant advancements in surgical techniques and implant designs. Modern bone cements are formulated to offer improved bonding and mechanical strength, resulting in more durable and long-lasting implant fixation. The increasing incidence of sports injuries and accidents has led to a rise in orthopedic surgeries. Fracture repair and spinal fusion procedures often use bone cement and glue to ensure stability and promote faster healing. Medical tourism has enabled patients to access high-quality orthopedic care at a lower cost in various countries. This trend is contributing to the global Bone Cement and Glue Market growth, as medical facilities in these destinations use these materials in their orthopedic procedures. The awareness of orthopedic conditions and the availability of advanced treatment options have increased, encouraging individuals to seek timely medical intervention. This awareness has led to a surge in orthopedic surgeries, further boosting the market for bone cement and glue.

Key Market Drivers

Increasing Aging Population is Driving the Global Bone Cement and Glue Market.

The world's population is aging at an unprecedented rate, with a growing number of elderly individuals facing various musculoskeletal issues, particularly osteoporosis and arthritis. As a result, there has been a significant surge in the demand for orthopedic procedures such as joint replacements, spine surgeries, and fracture repairs. This demographic shift is a driving force behind the global Bone Cement and Glue Market, which plays a crucial role in securing implants and facilitating bone healing. Bone cement and glue are vital components in orthopedic surgeries. These materials are used to anchor prosthetic implants, stabilize fractures, and promote bone healing. Bone cement, typically made of polymethylmethacrylate (PMMA), is used in procedures like hip and knee replacements to fix implants securely in place. On the other hand, bone glue, often based on biocompatible materials like calcium phosphate, helps in fracture repairs and spine surgeries by encouraging bone fusion.

The aging population is a result of improved healthcare, better living standards, and advancements in medical science. As a result, the world's elderly population has been growing steadily over the past few decades. According to the United Nations, by 2050, the global population aged 60 and above will reach 2.1 billion, more than double the 962 million in 2017. This demographic shift brings with it several implications, including

increased healthcare needs, especially in the orthopedic sector. Elderly individuals often experience musculoskeletal issues due to the natural wear and tear of bones and joints. Conditions like osteoarthritis, osteoporosis, and spinal degeneration become more prevalent with age. These conditions can lead to reduced mobility, pain, and overall decreased quality of life. To improve the quality of life for the aging population, orthopedic surgeries have become a viable solution. Joint replacements, such as hip and knee replacements, spine surgeries, and fracture repairs, are common procedures in this regard. These surgeries provide much-needed relief and allow older individuals to lead more active lives.

Bone cement and glue are integral components of orthopedic surgeries for the aging population. In joint replacements, bone cement ensures that the prosthetic implants remain firmly in place. It helps reduce pain, improve joint function, and enhance the overall quality of life for elderly patients. In the case of fracture repairs and spine surgeries, bone glue promotes bone fusion and healing, enabling a quicker recovery process. The increasing demand for orthopedic surgeries, driven by the aging population, creates significant growth opportunities in the Bone Cement and Glue Market. As more elderly individuals undergo joint replacements, spinal surgeries, and fracture repairs, the demand for these products continues to rise. Market players are innovating to develop better and more advanced bone cement and glue products that offer improved outcomes and patient satisfaction. In addition, advancements in materials and techniques are making these products more biocompatible, durable, and efficient. This helps reduce the likelihood of complications and enhances the success rate of orthopedic procedures among the elderly.

Increasing Sports Injuries is Driving the Global Bone Cement and Glue Market

The global Bone Cement and Glue Market has experienced significant growth in recent years, and a major driving force behind this expansion is the increasing prevalence of sports-related injuries. Sports and physical activities have become an integral part of modern lifestyles, promoting better health and overall well-being. However, the rising number of sports injuries has also led to a surge in the demand for bone cement and glue, crucial components in the orthopedic procedures that help individuals recover and get back to their active lives. Sports injuries, ranging from minor sprains to severe fractures and ligament tears, have become increasingly common across the world. A multitude of factors contributes to this phenomenon, including the growing popularity of sports, a sedentary lifestyle leading to deconditioned muscles and joints, and high-impact activities. Athletes and sports enthusiasts of all ages are vulnerable to injuries, and the consequences can be devastating, affecting not only their ability to participate in

sports but also their daily lives.

Orthopedic surgeons play a crucial role in helping individuals recover from sports injuries. In cases involving fractures, joint replacements, or the stabilization of damaged bone and soft tissue, orthopedic procedures often require the use of bone cement and glue. These materials are instrumental in ensuring the success of surgeries, as they provide stability and help in the healing process. While bone cement is typically used to anchor implants and stabilize fractures, bone glue is commonly utilized to repair smaller fractures, close incisions, and secure ligaments or tendons. The growing popularity of sports, both at the professional and amateur levels, has resulted in an increased number of injuries. As more individuals engage in sports and physical activities, the demand for orthopedic solutions such as bone cement and glue has risen. Innovations in orthopedic surgery techniques, along with the development of improved bone cement and glue formulations, have made these materials more effective and versatile in treating a wide range of sports-related injuries. Greater awareness of the importance of early diagnosis and prompt treatment of sports injuries has led to more individuals seeking medical attention and surgical intervention, if necessary. The emergence of specialized sports medicine as a field of study and practice has led to improved diagnosis and treatment options, fueling the demand for bone cement and glue.

Key Market Challenges

Regulatory Hurdles

One of the primary challenges facing the Bone Cement and Glue Market is the ever-evolving regulatory landscape. Health authorities in various countries are constantly updating and tightening their regulations to ensure the safety and efficacy of these products. Adherence to these regulations requires substantial financial investments and delays in product approvals. Manufacturers must navigate a complex web of regulatory requirements to bring their products to market, which can hinder innovation and market growth.

Product Innovation and Competition

The Bone Cement and Glue Market is highly competitive, with numerous companies offering a variety of products. To stay competitive, companies need to continually innovate and develop new, more effective products. This innovation is not only challenging but also expensive, as it often involves research and development, clinical trials, and manufacturing process improvements. Additionally, new entrants and generic

products can put pressure on established companies, leading to price wars and reduced profit margins.

Biocompatibility and Allergic Reactions

The biocompatibility of bone cement and glue products is crucial to ensure the safety of patients. Allergic reactions, infections, or other adverse events can occur when these products do not interact well with the patient's body. Ensuring the biocompatibility of bone cement and glue materials and formulations is a complex task, and manufacturers must invest in extensive testing and quality control measures to mitigate these risks.

Limited Indications

Bone cement and glue are primarily used in orthopedic surgery, but their applications are somewhat limited. While these products are effective in stabilizing fractures and supporting implants, they do not have broader applications in other medical fields. This limited scope can restrict market expansion, making it challenging for companies to diversify their product portfolios.

Cost Constraints

The cost of bone cement and glue can be a significant barrier for patients and healthcare providers. The materials themselves, as well as the surgical procedures involving these products, can be expensive. This cost constraint can limit the accessibility of these products to patients, particularly in developing countries with limited healthcare resources. Manufacturers and healthcare providers must work together to find ways to reduce costs without compromising product quality and patient outcomes.

Aging Population and Healthcare Systems

The aging global population is driving the demand for orthopedic procedures and, by extension, bone cement and glue. While this is an opportunity for market growth, it also presents challenges. Healthcare systems in many countries are already under strain due to the aging population, and the added demand for orthopedic procedures can further stress healthcare resources and budgets.

Key Market Trends

Technological Advancements

The global Bone Cement and Glue Market is experiencing remarkable growth, fueled by the continuous wave of technological advancements. These innovations are reshaping the landscape of orthopedic surgeries and providing better solutions for patients suffering from bone-related issues. Bone cement and glue play a pivotal role in various orthopedic procedures, and their market is on an upward trajectory, thanks to technological advancements that enhance their efficacy, safety, and patient outcomes. Traditional bone cement, which is commonly polymethylmethacrylate (PMMA), has been improved with the development of advanced biomaterials. These new materials offer superior biocompatibility and reduce the risk of allergic reactions and infections. Additionally, they mimic the mechanical properties of natural bone, improving the overall stability of the implant.

Infections can be a significant concern in orthopedic surgeries. To address this issue, technologically advanced bone cements and glues are being developed with antibacterial properties. These innovative materials release antibiotics locally, reducing the risk of post-operative infections and minimizing the need for systemic antibiotics. Technological advancements have led to the development of bone cements and glues that offer enhanced durability. They are more resistant to wear and tear, making them suitable for younger patients who lead more active lifestyles and require implants with a longer lifespan. Advanced delivery systems and minimally invasive techniques have revolutionized the application of bone cement and glue. Surgeons can now use smaller incisions and more precise placement of these materials, leading to shorter recovery times and reduced post-operative pain for patients. 3D printing technology is being used to create custom implants and bone cement formulations. This personalized approach ensures a better fit and reduces the likelihood of complications. Surgeons can design and print implants tailored to each patient's unique anatomy.

Segmental Insights

Type Insights

Based on the category of type, bone cement emerged as the dominant player in the global market for Bone cement and glue in 2023. The aging demographic, particularly in developed countries, has led to a surge in the number of orthopedic procedures, including hip and knee replacements. These surgeries often rely on bone cement to ensure the longevity and stability of prosthetic implants. Ongoing research and development efforts have resulted in advanced formulations of bone cement, enhancing

its strength, durability, and biocompatibility. These improvements have increased the trust of surgeons and patients in the use of bone cement. Increased awareness of the benefits of bone cement in orthopedic procedures among healthcare providers, patients, and surgeons has boosted its adoption. As more people understand the advantages of using bone cement, its demand continues to rise. Bone cement is now being used in other orthopedic procedures beyond joint replacements, such as spinal surgeries. This diversification of applications has further fueled its demand. The Bone Cement and Glue Market has become increasingly competitive, with several manufacturers developing innovative products. This competition has driven product improvements and cost-efficiency, making bone cement more accessible.

End use Insights

The Hospitals & Clinics segment is projected to experience rapid growth during the forecast period. Hospitals perform a substantial number of joint replacement surgeries, including hip and knee replacements. Bone cement is often used to secure the prosthetic components to the bone, enhancing implant stability and longevity. Clinics and hospitals frequently treat patients with fractures, and bone glue is an essential tool for setting and repairing bone fragments, especially in cases of osteoporotic fractures. Hospitals and clinics are also driving the adoption of innovative bone cement and glue technologies. The medical industry continues to develop new and improved products to enhance surgical outcomes and patient safety. Hospitals and clinics actively collaborate with manufacturers, researchers, and educational institutions to advance the field of bone cement and glue. This collaboration facilitates the exchange of knowledge and the development of new techniques and materials for orthopedic surgeries. These institutions often serve as testing grounds for innovative products and surgical procedures.

Regional Insights

North America emerged as the dominant player in the global Bone Cement and Glue Market in 2023, holding the largest market share in terms of value. North America, particularly the United States and Canada, has witnessed a significant increase in the incidence of orthopedic conditions such as fractures, osteoporosis, and arthritis. With an aging population, the demand for orthopedic surgeries and related products, including bone cement and glue, is on the rise. These products are vital in procedures like joint replacements and spinal surgeries, which are becoming increasingly common in the region. North America is at the forefront of technological advancements in the medical field. This includes the development of advanced bone cement and glue products with

improved characteristics, such as enhanced biocompatibility, durability, and reduced curing time. These innovations are not only improving patient outcomes but also increasing the efficiency of surgical procedures. North American manufacturers and healthcare facilities are keen on adopting the latest technologies, giving them a competitive edge in the global market.

Key Market Players

3M Company

BSN medical.

Stryker Corp.

Zimmer Biomet Holdings, Inc.

Smith & Nephew

DJO Global

Medtronic plc

Globus Medical

Johnson & Johnson.

Arthrex Inc.

aap Implantate AG

Exactech Inc.

Report Scope:

In this report, the Global Bone Cement and Glue Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Bone Cement and Glue Market, By Type:

Bone Cement

Bone Glue

Bone Cement and Glue Market, By Application:

Arthroplasty

Total knee arthroplasty

Total hip arthroplasty

Total shoulder arthroplasty

Kyphoplasty

Vertebroplasty

Bone Cement and Glue Market, By End use:

Hospitals & Clinics

Ambulatory Care Centers

Others

Bone Cement and Glue Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Bone Cement and Glue Market.

Available Customizations:

Global Bone Cement and Glue Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

- 1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. GLOBAL BONE CEMENT AND GLUE MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Type (bone cement (polymethyl methacrylate (PMMA) cement, calcium phosphate cement (CPC) and glass polyalkenoate cement (GPC)), bone glue(natural bone glue and synthetic bone glue))
 - 4.2.2. By Application (arthroplasty, total knee arthroplasty, total hip arthroplasty, total shoulder arthroplasty, kyphoplasty, vertebroplasty)
 - 4.2.3. By End use (Hospitals & Clinics, Ambulatory Care Centers, Others)
 - 4.2.4. By Region

- 4.2.5. By Company (2023)
- 4.3. Market Map
 - 4.3.1. By Type
 - 4.3.2. By Application
 - 4.3.3. By End use
 - 4.3.4. By Region

5. ASIA PACIFIC BONE CEMENT AND GLUE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type
 - 5.2.2. By Application
 - 5.2.3. By End use
 - 5.2.4. By Country
- 5.3. Asia Pacific: Country Analysis
 - 5.3.1. China Bone Cement and Glue Market Outlook
 - 5.3.1.1. Market Size & Forecast
 - 5.3.1.1.1. By Value
 - 5.3.1.2. Market Share & Forecast
 - 5.3.1.2.1. By Type
 - 5.3.1.2.2. By Application
 - 5.3.1.2.3. By End use
 - 5.3.2. India Bone Cement and Glue Market Outlook
 - 5.3.2.1. Market Size & Forecast
 - 5.3.2.1.1. By Value
 - 5.3.2.2. Market Share & Forecast
 - 5.3.2.2.1. By Type
 - 5.3.2.2.2. By Application
 - 5.3.2.2.3. By End use
 - 5.3.3. Australia Bone Cement and Glue Market Outlook
 - 5.3.3.1. Market Size & Forecast
 - 5.3.3.1.1. By Value
 - 5.3.3.2. Market Share & Forecast
 - 5.3.3.2.1. By Type
 - 5.3.3.2.2. By Application
 - 5.3.3.2.3. By End use
 - 5.3.4. Japan Bone Cement and Glue Market Outlook

5.3.4.1. Market Size & Forecast

5.3.4.1.1. By Value

5.3.4.2. Market Share & Forecast

5.3.4.2.1. By Type

5.3.4.2.2. By Application

5.3.4.2.3. By End use

5.3.5. South Korea Bone Cement and Glue Market Outlook

5.3.5.1. Market Size & Forecast

5.3.5.1.1. By Value

5.3.5.2. Market Share & Forecast

5.3.5.2.1. By Type

5.3.5.2.2. By Application

5.3.5.2.3. By End use

6. EUROPE BONE CEMENT AND GLUE MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Application

6.2.3. By End use

6.2.4. By Country

6.3. Europe: Country Analysis

6.3.1. France Bone Cement and Glue Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Application

6.3.1.2.3. By End use

6.3.2. Germany Bone Cement and Glue Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Application

6.3.2.2.3. By End use

6.3.3. Spain Bone Cement and Glue Market Outlook

- 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Application
 - 6.3.3.2.3. By End use
- 6.3.4. Italy Bone Cement and Glue Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Type
 - 6.3.4.2.2. By Application
 - 6.3.4.2.3. By End use
- 6.3.5. United Kingdom Bone Cement and Glue Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Type
 - 6.3.5.2.2. By Application
 - 6.3.5.2.3. By End use

7. NORTH AMERICA BONE CEMENT AND GLUE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Application
 - 7.2.3. By End use
 - 7.2.4. By Country
- 7.3. North America: Country Analysis
 - 7.3.1. United States Bone Cement and Glue Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By End use
 - 7.3.2. Mexico Bone Cement and Glue Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Application

7.3.2.2.3. By End use

7.3.3. Canada Bone Cement and Glue Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Type

7.3.3.2.2. By Application

7.3.3.2.3. By End use

8. SOUTH AMERICA BONE CEMENT AND GLUE MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Type

8.2.2. By Application

8.2.3. By End use

8.2.4. By Country

8.3. South America: Country Analysis

8.3.1. Brazil Bone Cement and Glue Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Type

8.3.1.2.2. By Application

8.3.1.2.3. By End use

8.3.2. Argentina Bone Cement and Glue Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Type

8.3.2.2.2. By Application

8.3.2.2.3. By End use

8.3.3. Colombia Bone Cement and Glue Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Type

8.3.3.2.2. By Application

8.3.3.2.3. By End use

9. MIDDLE EAST AND AFRICA BONE CEMENT AND GLUE MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Type

9.2.2. By Application

9.2.3. By End use

9.2.4. By Country

9.3. MEA: Country Analysis

9.3.1. South Africa Bone Cement and Glue Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Type

9.3.1.2.2. By Application

9.3.1.2.3. By End use

9.3.2. Saudi Arabia Bone Cement and Glue Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Type

9.3.2.2.2. By Application

9.3.2.2.3. By End use

9.3.3. UAE Bone Cement and Glue Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Type

9.3.3.2.2. By Application

9.3.3.2.3. By End use

10. MARKET DYNAMICS

- 10.1. Drivers
- 10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

- 11.1. Recent Developments
- 11.2. Product Launches
- 11.3. Mergers & Acquisitions

12. GLOBAL BONE CEMENT AND GLUE MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Product

14. COMPETITIVE LANDSCAPE

- 14.1. 3M Company
 - 14.1.1. Business Overview
 - 14.1.2. Company Snapshot
 - 14.1.3. Product & Services
 - 14.1.4. Financials (In case of listed)
 - 14.1.5. Recent Developments
 - 14.1.6. SWOT Analysis
- 14.2. BSN medical.
- 14.3. Stryker Corp.
- 14.4. Zimmer Biomet Holdings, Inc.
- 14.5. Smith & Nephew
- 14.6. DJO Global
- 14.7. Medtronic plc
- 14.8. Globus Medical
- 14.9. Johnson & Johnson.
- 14.10. Arthrex Inc.

14.11. aap Implantate AG

14.12.Exactech Inc.

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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