

Cementless Total Knee System (TKS) - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

Over the next few years, the cementless total knee system (TKS) market is expected to register a CAGR of 6.5%.

The COVID-19 pandemic had a significant impact on the cementless total knee system (TKS) market at first. The strict lockdowns and government regulations intended to slow down the spread of COVID-19 resulted in a decrease in demand for products across all implantable segments. During the COVID-19 outbreak, most surgical procedures, such as knee replacement surgeries, were delayed. As a result, the surgeries were only performed in emergencies, which slowed the market's growth slightly. For instance, the NCBI has stated that in India, around 147 arthroplasty surgeries have been performed only for severely affected arthritis patients between March 2020 and April 2021. Thus, the COVID-19 outbreak affected the market's growth adversely in its preliminary phase; however, the market is expected to gain traction due to the significant increase in the number of individuals that are preferring cementless total knee systems as compared to other surgeries.

Furthermore, the rising number of target diseases and sports injuries, as well as the growing benefits of cementless total knee replacement systems, are major factors driving the growth of the studied market. Currently, according to the report published by the center (for orthopedic and neurosurgical care and research), around 3.5 million knee replacement surgeries are going to be performed in the United States each year, which in turn is going to elevate the need for a cementless total knee system. Such factors are likely to boost the adoption of cementless total knee systems, thereby contributing to the studied market's growth.

Moreover, the CDC stated in October 2021 that by the year 2040, around 78 million adults aged 18 years and older are projected to have doctor-diagnosed arthritis in the United States. Therefore, the increase in the number of arthritis patients is going to increase the need for various surgeries such as cementless total knee replacement surgery, which is poised to accelerate the cementless total knee system (TKS) market globally and is expected to increase in the future, thereby driving the growth of the

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studied market over the forecast period.

In addition, new product launches and strategic activities by major players in the market are positively affecting the growth of the studied market. In November 2021, Smith & Nephew introduced the Legion Conceloc, which is a cementless total knee system (TKS). This system has completed its first surgical procedure. This system has been created in a virtual environment and has been manufactured through 3D printing and additive manufacturing in order to optimize the porous structure in order to promote the bony ingrowth of the knee.

Therefore, owing to the aforementioned factors, it is anticipated that the studied market will witness growth over the analysis period. However, the high cost of the cementless total knee system and procedure is likely to impede the market's growth.

Cementless Total Knee System (TKS) Market Trends

Mobile Bearing Segment is Expected to Witness Growth Over the Forecast Period

Mobile Bearing is a polyethylene insert that can rotate short distances within the metal tibial component. The mobile bearing cementless knee implant has a rotation that enables a natural and wide range of knee motion, this in turn provides a better knee function. For instance, according to the NCBI mobile-bearing design provides advantages such as contact stress, reduced polyethylene wear and lower risk of tibial component loosening. Hence, owing to the advantages offered by mobile bearing, the adoption of the cementless total knee systems is likely to increase among the target population, ultimately driving the market growth.

Furthermore, the mobile bearing system in the cementless knee implant has been developed as an alternative to fixed-bearing implants. The development has been done in order to improvise the range of motion and to minimize the wear. Mobile bearing implants are mostly suitable for the younger population.

Therefore, the fixed-bearing segment is expected to witness significant growth over the forecast period due to the abovementioned factors.

North America is Expected to Dominate the Cementless Total Knee System Market

North America is expected to dominate the market owing to factors such as the easy availability of technologically advanced products and the high awareness related to cementless total knee systems in the region. an increase in the usage of energy-based devices for rapid and effective results in the United States. For instance, according to the CDC, in November 2021, around 24% of all adults, or around 58.5 million individuals, had arthritis in the United States, which is among the key factors that contribute to the growth of the studied market in North America.

Key product launches, a high concentration of market players, or the manufacturer's presence in the United States are some of the factors driving the growth of the cementless total knee system market in the country. For instance, in May 2021, Stryker announced that it had acquired OrthoSensor. Orthosensor, Inc. is a company that provides digital evolution for musculoskeletal care and sensor technology for total joint replacement. Hence, the acquisition has been carried out in order to provide more innovative and advanced smart sensor technologies that include smart implants across joint replacements, among others. Therefore, such product launches in the region are anticipated to drive the growth of the market in the country.

Therefore, owing to the aforesaid factors, the growth of the studied market is anticipated in the North American region.

Cementless Total Knee System (TKS) Industry Overview

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The cementless total knee system (TKS) market is fragmented in nature due to the presence of several companies operating globally as well as regionally. The competitive landscape includes an analysis of a few international as well as local companies that hold large market shares and are well known. include Stryker, Smith & Nephew, Zimmer Biomet, Johnson & Johnson (DePuy Synthes), B. Braun SE, Olympus Corporation (GROUP FH ORTHO), DJO, LLC (Enovis), X.NOV (C2F IMPLANTS), and Beijing Chunlizhengda Medical Instruments Co., Ltd., among others.

Additional Benefits:

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

Table of Contents:

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

- 4.1 Market Overview
- 4.2 Market Drivers
 - 4.2.1 Increasing Number of Individuals Diagnosed with Arthritis (osteoarthritis)
 - 4.2.2 Elevating Benefits of Cementless Total Knee Replacement Systems
 - 4.2.3 Rising Number of Sport Injuries
 - 4.2.4 Inclining Rate of Obesity and Geriatric Population
- 4.3 Market Restraints
 - 4.3.1 High Cost of the Cementless Total Knee System and procedure
- 4.4 Porter's Five Forces Analysis
 - 4.4.1 Threat of New Entrants
 - 4.4.2 Bargaining Power of Buyers/Consumers
 - 4.4.3 Bargaining Power of Suppliers
 - 4.4.4 Threat of Substitute Products
 - 4.4.5 Intensity of Competitive Rivalry

5 MARKET SEGMENTATION (Market Size by Value - USD million)

- 5.1 By Component
 - 5.1.1 Tibial Component
 - 5.1.2 Femoral Component
- 5.2 By End-User
 - 5.2.1 Hospitals
 - 5.2.2 Orthopedic Centers
 - 5.2.3 Other end-Users
- 5.3 Geography
 - 5.3.1 North America

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- 5.3.1.1 United States
- 5.3.1.2 Canada
- 5.3.1.3 Mexico
- 5.3.2 Europe
 - 5.3.2.1 Germany
 - 5.3.2.2 United Kingdom
 - 5.3.2.3 France
 - 5.3.2.4 Italy
 - 5.3.2.5 Spain
 - 5.3.2.6 Rest of Europe
- 5.3.3 Asia-Pacific
 - 5.3.3.1 China
 - 5.3.3.2 Japan
 - 5.3.3.3 India
 - 5.3.3.4 Australia
 - 5.3.3.5 South Korea
 - 5.3.3.6 Rest of Asia-Pacific
- 5.3.4 Middle-East and Africa
 - 5.3.4.1 GCC
 - 5.3.4.2 South Africa
 - 5.3.4.3 Rest of Middle East and Africa
- 5.3.5 South America
 - 5.3.5.1 Brazil
 - 5.3.5.2 Argentina
 - 5.3.5.3 Rest of South America

6 COMPETITIVE LANDSCAPE

- 6.1 Company Profiles
 - 6.1.1 Stryker
 - 6.1.2 Smith & Nephew
 - 6.1.3 Zimmer Biomet.
 - 6.1.4 Johnson & Johnson (DePuy Synthes)
 - 6.1.5 B. Braun SE
 - 6.1.6 DJO, LLC (Enovis)
 - 6.1.7 X.NOV (C2F IMPLANTS)
 - 6.1.8 Beijing Chunlizhengda Medical Instruments Co., Ltd.

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

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