Market Scenario

Knee replacement—also known as knee arthroplasty—is a joint surgical procedure to replace the affected parts of the knee to relieve pain and disability. Knee replacement surgery is performed on patients that are affected by diseases such as osteoarthritis, post-traumatic arthritis or rheumatoid arthritis.

The global knee replacement market is majorly driven by the increasing geriatric population giving rise to old-age ailments such as arthritis, osteoporosis, and diabetes. Additionally, rising technological advancements such as minimally invasive surgeries along with presence of better implant materials are likely to drive the growth of knee replacement market.

However, the high cost of implants and growing awareness for non-surgical treatment methods such as exercises and shoe aids are likely to hamper the growth of the market.

The global knee replacement market is projected to reach USD 10 billion by 2025 and expected to grow at a CAGR of 3.7% during the forecasted period.

Segmentation

MRFR segments the global knee replacement market on the basis of product type, material, and end user.

Global knee replacement market, on the basis of product type, has been segmented into partial knee reconstructive implants, total knee reconstructive implants, and revision knee reconstructive implants. The total knee reconstructive implants segment has been further sub-segmented into medial pivot implants, mobile bearing implants, fixed bearing implants, and others.

On the basis of material, the knee replacement market is segmented into ceramic material, metal alloy, strong plastic parts, and others.

On the basis of the end users, the market is segmented into hospitals & clinics, specialty centers, and rehabilitation centers.

The knee replacement market has been segmented, by region, into the Americas, Europe, Asia-Pacific, and the Middle East & Africa.

The knee replacement market in the Americas has further been segmented into North America and Latin America, with the North American market divided into the US and Canada. The European knee replacement market has been bifurcated into Western Europe and Eastern Europe. Western Europe has further been classified as Germany, France, the UK, Italy, Spain, and the rest of Western Europe.

The knee replacement market in Asia-Pacific has been segmented into Japan, China, India, South Korea, Australia, and the rest of Asia-Pacific. The knee replacement market in the Middle East & Africa has been segmented into the Middle East and Africa.

Key Players

Zimmer Inc. (US), DePuy Synthes (US), Stryker (US), Smith and Nephew (UK), Exactech, Inc. (US), Corin Group (UK), Aesculap Implants Systems LLC (US), Medacta International. (Switzerland),
Allegra Orthopaedics Limited (Australia), and Kinamed, Inc. (US), are some of the key players operating in the global knee replacement market.

Regional Market Summary

Global Knee Replacement Market Share (%), by Region, 2018

Source: Centers for Disease Control and Prevention (CDC), Eurostat, White Papers, Company Presentations, and Annual Reports

Geographically, the market has been segmented into the Americas, Europe, Asia-Pacific, and the Middle East & Africa.

The Americas has been segmented into North America and South America. North America has been further segmented into the US and Canada. Increasing aging population affected with knee joint disorders and increase in awareness level for joint-related treatments are likely to enhance the growth of knee replacement market in the North American region. Additionally, high number of research and development in knee implant industry and growing government initiative are pushing the growth of the market. According to American Joint Replacement Registry, around 161,040 joint replacement procedures were performed in the US in 2015. Moreover, according to the Agency for Healthcare Research and Quality, more than 600,000 knee replacements are performed each year in the US. Additionally, according to United States Census Bureau, around 49.2 million adults aged 65 and above were present in the US as of 2016.

Europe is the second-largest market and is expected to grow a strong growth during the forecast period owing to the availability of innovative and advanced treatment facilities, rising cases of knee replacements, and rising number of trained medical professionals. Furthermore, growing older population is giving rise to patient population is likely to enhance the growth of the market. For instance, Eurostat estimated that over 19.2% of population in Europe were aged 65 and above. This rising older population is likely to lead to rising patient population. Additionally, Ramsay Health Care UK stated that more than 70,000 knee replacements are carried out in England and Wales each year.

Asia Pacific is expected to be the fastest growing market due to increasing prevalence of joint disorders such as rheumatoid arthritis, osteoarthritis, and hip injuries. China is the fastest growing region owing to its large older population and rising patient population. Rising geriatric population and awareness about health are factors driving the growth of the market. Additionally, the availability of new treatment methods is propelling the market in Asia-Pacific. According to the Asia-Pacific Arthroplasty Society, in 2015, approximately 20,000 hip & knee replacements were performed in Thailand. This huge number of knee replacement surgeries is driving the Asia-Pacific knee replacement market.

The Middle East & Africa is expected to show the least growth in the market due to major factors such as lack of awareness, limited access, and affordability of treatment facilities.

Global Knee Replacement Market, by Product Type

- Total Knee Reconstructive Implants
- Fixed Bearing Implants
- Mobile Bearing Implants
- Medial Pivot Implants
- Others
• Partial Knee Reconstructive Implants
• Revision Knee Reconstructive Implants

**Global Knee Replacement Market, by Material**
• Metal Alloy
• Ceramic Material
• Strong Plastic Parts
• Others

**Global Knee Replacement Market, by End User**
• Hospitals and Clinics
• Specialty Centers
• Rehabilitation Centers

**Global Knee Replacement Market, by Region**
• Americas
  • North America
  • US
  • Canada
  • Latin America
• Europe
  • Western Europe
  • Germany
  • France
  • Italy
  • Spain
  • UK
  • Rest of Western Europe
  • Eastern Europe
• Asia-Pacific
  • Japan
  • China
  • India
  • Australia
  • South Korea
  • Rest of Asia-Pacific
• Middle East & Africa
  • Middle East
  • Africa

**Global Knee Replacement Market, by Key Players**
• Zimmer Inc.
• DePuy Synthes
• Stryker
• Smith and Nephew
• Exactech, Inc.
• Corin Group
• Aesculap Implants Systems LLC
• Medacta International
• Allegra Orthopaedics Limited
• Kinamed, Inc.
• Others

**Intended Audience**
• Knee Replacement centers
• Contract research organizations (CROs)
• Research and development (R&D) companies
• Government research laboratories
• Independent research laboratories
• Government and independent regulatory authorities
• Market research and consulting service providers
• Medical research laboratories
• Academic medical institutes and universities
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