

Total Knee Replacement Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

<https://marketpublishers.com/r/TA913C44217BEN.html>

Date: October 2024

Pages: 130

Price: US\$ 4,850.00 (Single User License)

ID: TA913C44217BEN

Abstracts

The Global Total Knee Replacement Market was worth USD 9.4 billion in 2023 and is projected to grow at a compound annual growth rate (CAGR) of 5.1% from 2024 to 2032. This growth can be attributed to the rising incidence of arthritis and osteoporosis, along with increasing infection rates, contributing to a higher demand for knee revision procedures. As the population ages and life expectancy continues to rise, more individuals are expected to suffer from these conditions, leading to an uptick in knee replacement surgeries. Furthermore, the increasing prevalence of obesity—a significant risk factor for osteoarthritis—along with the widespread occurrence of osteoporosis, particularly among those with rheumatoid arthritis, amplifies the necessity for knee replacements. Based on product, the primary knee replacement systems segment emerged as the largest, generating revenue of USD 7.7 billion in 2023. These systems are utilized in first-time surgeries, which significantly outnumber revision or partial procedures.

As conditions such as osteoarthritis and other degenerative joint diseases become more common, the number of first-time knee replacement surgeries is on the rise, solidifying the primary knee replacement segment's leading position. Additionally, these systems cater to a wide array of patients with severe knee joint damage due to various causes, enhancing their market dominance. When considering device type, the total knee replacement market is classified into bicompartmental knee implants, three-compartmental knee implants, and unicompartmental knee implants. The three-compartmental knee implants segment commanded a substantial 77.4% market share in 2023. These implants are integral to total knee replacement surgeries that involve replacing all three compartments of the knee—medial, lateral, and patellofemoral. Such surgeries are often performed in advanced cases of knee joint degeneration, where osteoarthritis has impacted all knee compartments. In North America, the total

knee replacement market captured USD 5.1 billion in revenue in 2023, with an expected CAGR of 3.8% from 2024 to 2032. The region experiences a high prevalence of osteoarthritis, particularly among older adults. Contributing factors, such as sedentary lifestyles and increasing obesity rates, further aggravate joint degeneration, resulting in a greater need for total knee replacement surgeries. Overall, the combination of demographic trends and health issues in North America is significantly driving the demand for knee replacements, positioning the market for substantial growth in the coming years.

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