

Global Smart Implants Market Size study & Forecast, by Product Type (Orthopedics Smart Implants, Cardiovascular Smart Implants, Ophthalmic Smart Implants, Dental Smart Implants, Cosmetic smart Implants, Others) By End User (Hospitals, Ambulatory Surgical Centers, Orthopedics Clinics, Ophthalmic Clinics, Dental Labs, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Smart Implants Market is valued approximately USD 3.99 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 17.9% over the forecast period 2023-2030. Smart Implants refer to medical devices or implants that incorporate advanced technologies, such as sensors, connectivity, and data processing capabilities, to enhance their functionality and provide real-time monitoring or feedback. These implants are designed to collect and transmit data, allowing healthcare professionals to monitor the implant's performance and patient's condition. The Smart Implants market is expanding because of factors such as growing number of geriatric populations and rising number of deaths due to road accidents. The integration of smart technologies in implants aims to improve patient outcomes, enable personalized medicine, and facilitate more precise and timely interventions based on real-time data. As a result, the demand of Smart Implants has progressively increased in the international market during the forecast period 2023-2030.

Geriatric populations often require long-term healthcare management as individuals often experience a higher incidence of chronic diseases and health conditions, such as orthopedic issues, cardiovascular problems, and neurological disorders. Smart implants,

with their ability to continuously monitor patients' health parameters, provide a valuable tool for healthcare providers to track the progress of diseases, assess treatment efficacy, and intervene promptly. According to the World Health Organization indicates that the global population aged 60 and above is expected to double to around 2.1 billion by 2050. Moreover, those aged 80 and beyond are anticipated to triple between 2020 and 2050, reaching a staggering 426 million. Another important factor drives the Smart Implants market is increasing number of deaths due to road accidents. Road accidents often result in severe injuries, including fractures and orthopedic issues. Smart implants equipped with sensors can play a crucial role in monitoring the condition of these injuries in real-time. This monitoring capability can facilitate early detection of complications and enable timely medical interventions, potentially improving patient outcomes.

In addition, as per World Health Organization, road traffic injuries claim the lives of a significant number of children and young adults, emerging as the primary cause of death for individuals aged 5-29 years. Each year, approximately 1.3 million people lose their lives due to road traffic crashes. Moreover, growing incidence of sport injuries and technological advancements associated to smart implants is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, stringent government regulations and high cost of Smart Implants is going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Smart Implants Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the growing healthcare expenditure and expansion of pharmaceutical and biotechnology companies in the region. Pharmaceutical and biotechnology companies, driven by increasing research and development investments, are actively exploring synergies with smart implant technologies. This collaboration allows for the development of advanced drug delivery systems and combination therapies, where smart implants can provide real-time data on treatment effectiveness. Additionally, partnerships between healthcare entities and technology firms contribute to the expansion of smart implant applications, pushing the boundaries of medical innovation. The region's dominant performance is anticipated to propel the overall demand of Smart Implants. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as growing number of road accidents and sports injuries in the region.

Major market player included in this report are:

Stryker Corporation

Zimmer Biomet Holdings, Inc

DePuy Synthes Companies

IQ Implants USA

Canary Medical Inc

Medtronic plc

NuVasive Inc

Smart Implant Solutions

Rejoint S.r.l.

Conmed Corporation

Recent Developments in the Market:

In July 2023, UroMems, a global company developing groundbreaking mechatronics technology to treat stress urinary incontinence, has successfully completed the first-ever implant of the UroActive smart, automated artificial urethral sphincter in a female patient. This milestone marks a new era for millions of women suffering from SUI, and the findings of this clinical study will help shape the design and implementation of UroMems' critical clinical trial in Europe and the United States.

Global Smart Implants Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Product Type, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product Type

Orthopedics Smart Implants

Cardiovascular Smart Implants

Ophthalmic Smart Implants

Dental Smart Implants

Cosmetic smart Implants

Others

By End User

Hospitals

Ambulatory Surgical Centers

Orthopedics Clinics

Ophthalmic Clinics

Dental Labs

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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