

Global Biodegradable Stents Market Size study, by Stent Type (Coronary Artery Stents, Peripheral Artery Stents), by Material Type (Polymer-based, Metal-based), by End-User (Hospitals, Cardiac Catheterization Laboratories, Ambulatory Surgery Centers), and Regional Forecasts 2022-2032

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Abstracts

Global Biodegradable Stents Market is valued approximately at USD 351.6 million in 2023 and is anticipated to grow with a healthy growth rate of more than 7.8% over the forecast period 2024-2034. Biodegradable stents are advanced medical devices designed to temporarily support blood vessels or other tubular structures in the body, such as the esophagus or bile ducts, and then gradually dissolve once their purpose is fulfilled. These stents are particularly useful in treating conditions like coronary artery disease, where they help keep arteries open after they have been widened through a procedure known as angioplasty. The high prevalence of cardiovascular diseases is significantly augmenting the market. Bioresorbable vascular stents offer an effective treatment for cardiovascular conditions, providing an immediate angiographic result similar to that of traditional metal stents. The ongoing research and development of fully bioresorbable stents are creating lucrative opportunities for market growth. These stents have the potential to meet the unmet needs for superior devices, particularly in below-the-knee lesions.

Moreover, Vendors are continuously innovating with biodegradable stent materials and designs to reduce restenosis rates. These materials are utilized to develop drug-eluting bioresorbable scaffolds, combining the advantages of metallic drug-eluting stents without leaving a permanent implant. Biodegradable stents, or bioresorbable stents, are crucial in opening and widening clogged heart arteries. Manufactured from materials

that dissolve or are absorbed into the body, these stents address the issue of in-stent restenosis, where scar tissue forms under the stent, causing the artery to narrow again. Researchers globally are investigating biodegradable polymeric vascular stents, which offer clinical potential due to their degradability. These stents are designed to degrade after vascular healing, allowing arteries to regain their normal elasticity. Investment in 3D printing technology for personalized biodegradable stent design is accelerating the development process and reducing time to market. However, High cost of biodegradable stents and regulatory hurdles are hindering the market growth over the forecast period 2024-2032.

The key regions considered for the Global Biodegradable Stents Market study include Asia Pacific, North America, Europe, Latin America, and Middle East and Africa. In 2023, Europe dominated the market due to the high prevalence of cardiovascular diseases and significant advancements in stent technology. Cardiovascular diseases remain the leading cause of death in the European Union, accounting for nearly one-third of all deaths. The Asia Pacific region is expected to grow steadily from 2024 to 2034, driven by a favorable regulatory environment, foreign investments, and government initiatives promoting awareness and timely treatment of heart diseases.

Major market players included in this report are:

Boston Scientific, Inc.

Abbott

Elixir Medical Corporation

Kyoto Medical Planning Co., Ltd.

Biotronik

Terumo Corporation

Biosensors International Group

ELLA - CS, s.r.o.

Medtronic plc

Boston Scientific Corporation

Meril Life Sciences Pvt. Ltd.

Terumo Corporation

Zorion Medical

Lepu Medical Technology (Beijing) Co., Ltd.

Microport Scientific Corporation

The detailed segments and sub-segment of the market are explained below:

By Stent Type:

Coronary Artery Stents

Peripheral Artery Stents

By Material Type:

Polymer-based

Metal-based

By End-user:

Hospitals

Cardiac Catheterization Laboratories

Ambulatory Surgery Centers

Common content for Report Description:

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

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2034

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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