

Global Bioprosthesis Market Size Study, by Product (Allograft, Xenograft), by Application (Cardiovascular, Plastic Surgery & Wound Healing), and Regional Forecasts 2022-2032

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Abstracts

The global bioprosthesis market is valued at approximately USD 5.66 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 4.40% over the forecast period 2024-2032. The increasing prevalence of cardiovascular diseases (CVD) and a rapidly aging global population are key drivers shaping market growth. Bioprosthetic devices, which involve the use of biological tissue in medical implantations, have gained widespread acceptance in treating various cardiovascular conditions such as heart valve disorders. The rising incidence of conditions like high blood pressure, strokes, and coronary heart disease has led to an increased demand for bioprosthetic heart valves, fueling market expansion. As per the Stroke Association, approximately 100,000 people experience strokes annually in the UK, highlighting the urgent need for advanced cardiovascular solutions.

The growing geriatric population further underpins market growth. According to the World Health Organization (WHO), the global population of individuals aged 60 years and older is projected to reach 2.1 billion by 2050. Sedentary lifestyles, increasing tobacco and alcohol consumption, and dietary imbalances contribute to the rising burden of cardiovascular diseases, which claim over 17.9 million lives annually worldwide. Given these statistics, the demand for bioprosthetic implants is expected to surge over the coming years. The advent of technological advancements in tissue engineering and biomaterials has further accelerated market growth, enabling the development of more durable and effective bioprosthetic solutions.

Investments in research and development (R&D) remain a critical factor in shaping the

bioprosthetics industry. For instance, in June 2024, Esper Bionics, a leading developer of bioprosthetic technologies, secured USD 5 million in funding from YZR Capital, with additional co-financing from Horizon Capital and the European Bank for Reconstruction and Development. Such investments drive innovation and facilitate the introduction of next-generation bioprosthetic products. Furthermore, the increasing focus on minimally invasive procedures has led to the development of cutting-edge bioprosthetic valves, such as Medtronic's Avalus Ultra Bioprosthesis Valve, which enhances implantation ease and long-term patient outcomes.

From a regional perspective, North America held the largest revenue share in 2023, driven by advanced healthcare infrastructure, favorable reimbursement policies, and a high prevalence of cardiovascular conditions. The U.S. market, in particular, is witnessing substantial growth, with the Centers for Disease Control and Prevention (CDC) reporting that one person dies from CVD every 33 seconds. Meanwhile, the Asia-Pacific region is projected to experience the highest growth rate, fueled by rising awareness, an expanding healthcare sector, and increasing instances of hypertension and coronary heart disease in countries like China, India, and Thailand. The European market is also poised for growth, supported by robust R&D investments and growing adoption of minimally invasive bioprosthetic procedures.

Major market players included in this report are:

Medtronic

Abbott (St. Jude Medical, Inc.)

Edwards Lifesciences Corporation

LivaNova PLC (Sorin Group)

Johnson & Johnson (Ethicon, Inc.)

LeMaitre Vascular, Inc.

Organogenesis Inc.

Humacyte Global, Inc.

Artivion, Inc. (CryoLife, Inc.)

Braile Biomédica

JenaValve

Labcor Laboratories Ltda.

Rua Life Sciences Plc (Aortech International Plc.)

Meril Life Sciences

LATTICE MEDICAL

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

By Product:

Allograft

Xenograft

By Application:

Cardiovascular

Plastic Surgery & Wound Healing

By Region:

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East and Africa (MEA)

South Africa

Saudi Arabia

UAE

Kuwait

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

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 the geographical landscape, including country-level trends across major regions.

Competitive landscape with a comprehensive overview of major players and their market positioning.

Analysis of key business strategies, mergers, acquisitions, and investment initiatives.

Assessment of emerging trends, disruptive technologies, and future market outlook.

Demand-side and supply-side analysis of the bioprosthetics market, including

R&D advancements and innovation landscape.

Comprehensive regulatory framework analysis influencing market trends across different regions.

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