

Bioprosthetics Market Size, Share & Trends Analysis Report By Product (Allograft, Xenograft), By Application (Cardiovascular, Plastic Surgery & Wound Healing), By Region, And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/B2B5D775D557EN.html>

Date: February 2025

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: B2B5D775D557EN

Abstracts

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Bioprosthetics Market Growth & Trends

The global bioprosthetics market size is estimated to reach USD 7.64 billion by 2030, registering a CAGR of 4.40% from 2025 to 2030, according to a new report by Grand View Research, Inc. The unprecedented upward shift in the lifestyle-associated habits leading to the high prevalence of cardiovascular diseases coupled with the increasing geriatric population base, which is highly susceptible to developing cardiac impairments and tissue damage, are presumed to impel the demand for the bioprosthetics market during the forecast period.

Lower biocompatibility, aesthetics, and strength exhibited by the synthetic material-based prosthetics indicate the indisputable requirement for incorporating bioprosthetics; consequentially, the increasing need for the tissue-engineered autologous, allogenic or xenograft products is anticipated to present the market with lucrative growth opportunities.

The growth in the demand for bioprostheses is attributed mainly to technological advancements comprising trans catheter valve fabrication technology, the construction of which involves a multidisciplinary approach, wherein wide-ranging technologies borrowed from varied devices including balloon angioplasty and coronary stents as well as medical disciplines, such as cardiac surgery and interventional cardiology, are merged to introduce a revolutionary quantum leap in the transcatheter valve replacement procedures. Moreover, a combination of the non-invasive imaging

techniques, such as, echocardiography angiography, MRI, and CT, are increasingly being employed, which allows the surgeons to visualize both the device and the anatomy of the patient thus eliminating the need to conduct an open heart surgery.

Bioprosthetics Market Report Highlights

The allograft product segment dominated the market and accounted for a share of 69.6% in 2024, owing to the increasing geriatric population and advancement in allograft procedures.

By application, the plastic surgery and wound healing segment is expected to witness significant CAGR growth over the forecast period, owing to rising demand for minimally invasive surgery and technological advancement.

Additionally, as per a research published by the NCBI, the increase in case complexities drive the need to apply a multidisciplinary approach in performing the above-mentioned procedures, which augments the use of these bioprosthetics meshes to decrease the morbidity associated with chronic impairments.

The North American bioprosthetics market held a dominant position with a revenue share of 37.1% in 2024, owing to the increasing prevalence of cardiovascular diseases and developed healthcare infrastructure.

For instance, In April 2016, St. Jude Medical, Inc. announced the European launch of Trifecta Surgical Valve to provide enhanced alternatives to patients requiring aortic valve replacements. This launch resulted in the expansion of the existing product portfolio of St. Jude Medical, Inc. in Europe.

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