

The Proliferation of Artificial Vital Organs and Medical Bionics - A Brief Analysis of The Global Market Report 2025

*The Business Research Company's
Artificial Vital Organs And Medical Bionics
Global Market Report 2025 – Market Size,
Trends, And Global Forecast 2025-2034*

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Artificial Vital Organs And Medical Bionics Global
Market Report 2025 – Market Size, Trends, And Global
Forecast 2025-2034

Artificial vital organs and medical bionics have experienced significant growth over the years. The market shows no signs of slowing down as it is projected to grow from a substantial \$43.1 billion in 2024 to an impressive \$46.95 billion in 2025, boasting a compound annual growth rate CAGR of 8.9%. This noticeable upswing can chiefly be attributed to heightened public awareness and acceptance, improved surgical techniques, a chronic shortfall of donor organs, an upsurge in chronic diseases, and streamlined regulatory processes and approvals.

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What Is the Predicted Future Growth and Potential Market Size of the Global Market?

The [artificial vital organs and medical bionics market](#) is expected to sustain robust growth in the next few years. The market is forecasted to expand to \$65.24 billion in 2029, showing a compound annual growth rate CAGR of 8.6%. The growth factors contributing to this rise in the forecast period include the surge in organ failures, an increasing elderly population, elevated healthcare expenditure, a preference for minimally invasive surgical procedures, and growth in regenerative medicine and tissue engineering. Simultaneously, the fast-approaching future brings along trends including advancements in biomaterials and biocompatible materials, enhanced research and development activities, improved patient outcomes, and increased investments in healthcare by both governmental and private sectors.

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How Does the Rising Prevalence of Organ Failures Contribute to Market Growth?

The bellows of growth for the [artificial vital organs and medical bionics global market](#) are continually fanned by the rising prevalence of organ failures. When an organ or multiple organs lose their ability to operate essential functions, a gradually worsening condition of organ failure sets in. This condition leads to severe health complications and can have life-threatening consequences. The rise in organ failures has been driven by higher rates of chronic conditions like diabetes, hypertension, and heart disease, as well as inherited conditions and genetic predispositions leading to organ failure. Artificial vital organs and medical bionics cater to this problem by providing continuous life-support and restoring critical functionalities in patients with damaged organs.

Which Key Players Are Leading the Advance in the Market?

The driving forces behind the strong market advancements are significant companies operating in the sector such as Abiomed Inc., Abbott Laboratories, Medtronic Plc, Fresenius Medical Care AG, Asahi Kasei Corporation, Boston Scientific Corporation, Biomet Inc., Terumo Corporation, Edwards Lifesciences Corporation, and Otto Bock Healthcare GmbH, to name a few.

What Are the Notable Recent Developments in the Market?

The key players in the market constantly aim to develop technologically advanced products like bionic pancreas to augment patient outcomes and fulfill the escalating demand for advanced medical solutions. For instance, Beta Bionics Inc., a US-based medical technology company, launched the iLet Bionic Pancreas in December 2023, paving the way for future developments.

How Is the Global Market Partitioned?

The market encompasses various segments including:

- 1 By Type: Artificial Vital Organs, Medical Bionics
- 2 By Technology: Mechanical, Electronic
- 3 By Application: Hospitals, Clinics, Other Applications

Inside the subsegments, we find:

- 1 By Artificial Vital Organs: Artificial Heart, Artificial Kidney, Artificial Liver, Artificial Lungs, Artificial Pancreas
- 2 By Medical Bionics: Bionic Limbs, Bionic Eyes, Bionic Ears, Neural Implants, Bionic Organs

Which Regions Contribute Significantly to the Market?

In 2024, North America was the prominent region propelling the artificial vital organs and medical bionics market. Simultaneously, Asia-Pacific is projected to set the pace for growth during the forecast period. The regions covered in the report extend to Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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Americas +1 3156230293

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Oliver Guirdham

The Business Research Company

+44 20 7193 0708

info@tbrc.info

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