

# Vital Organs Support Systems and Medical Bionics Market by Product (Vital organs support systems and Medical Bionics) and End User (Hospitals, Ambulatory Surgical Centers, and Others): Global Opportunity Analysis and Industry Forecast, 2018–2025

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## Abstracts

The global vital organs support systems and medical bionics market size in 2017 is \$28,169 million, and is projected to reach \$59,412 million by 2025, growing at a CAGR of 10.9% from 2018 to 2025.

An artificial organ is an engineered device or tissue that is implanted or integrated into a human, interfacing with living tissue. Medical bionics, also known as biomedical implants, are artificial addition to the body. These artificial implants mimic the function of the lost or nonfunctional body part.

The vital organs support systems and medical bionics market is expected to exhibit significant growth during the forecast period due to rise in geriatric population, scarcity of donor organs, technological advancements in the artificial organ sector, and increase in R&D expenditure. In addition, rise in number of patients suffering from chronic diseases drives the market growth. However, high cost of artificial organs and stringent approval process are projected to impede growth of the vital organs support systems and medical bionics market. On the contrary, application of advanced biomaterials in artificial organs and lucrative opportunities in emerging economies are expected to provide significant prospects for the manufacturers in the industry.

The global vital organs support systems and medical bionics market is segmented based on product, end user, and region. Depending on product, the market is categorized into vital organs support systems and medical bionics. The vital organs

support systems segment is further divided into artificial heart, artificial kidney, artificial pancreas, artificial urinary bladder, artificial lungs, and artificial liver. The medical bionics segment is subsegmented into bionic eye, ear bionics, orthopedic bionics, cardiac bionics, and neural bionics. Depending on end user, the market is segregated into hospitals, ambulatory surgical centers, and others. Region wise, it is studied across North America, Europe, Asia-Pacific, and LAMEA.

## KEY BENEFITS FOR STAKEHOLDERS

This report provides a detailed quantitative analysis of the current market trends and future estimations from 2018 to 2025, which assists to identify the prevailing market opportunities.

An in-depth analysis of various regions is anticipated to provide a detailed understanding of the current trends to enable stakeholders to formulate region-specific plans.

A comprehensive analysis of the factors that drive and restrain the growth of the global vital organs support systems and medical bionics market is provided.

An extensive analysis of various regions provides insights that allow companies to strategically plan their business moves.

## KEY MARKET SEGMENTS

### By Product

Vital organs support systems

Artificial Heart

Artificial Kidney

Artificial Pancreas

Artificial Urinary Bladder

Artificial Lungs

Artificial Liver

Medical Bionics

Bionic Eye

Ear Bionics

Cochlear Implants

Bone Anchored Hearing Systems

Auditory Brainstem Implants

Orthopedic Bionics

Upper limb

Lower limb

Bionic Knee

Bionic Feet

Exoskeleton

Electrical Bone Growth Stimulators

Non-Invasive Bone Growth Stimulators

Invasive Bone Growth Stimulators

Cardiac Bionics

Pacemaker

Implantable Pacemaker

External Pacemaker

Ventricular Assist Device

Left Ventricular Assist Device (LVAD)

Right Ventricular Assist Device (RVAD)

Biventricular Assist Device (BIVAD)

Artificial Heart Valves

Mechanical Heart Valves

Tissue Heart Valves

Neural Bionics

Internal Neurostimulators

Deep Brain Stimulators (DBS)

Sacral Nerve Stimulators (SNS)

Vagus Nerve Stimulators (VNS)

Spinal Cord Stimulators (SCS)

Other Neurostimulators

External Neurostimulators (Transcutaneous Electrical Nerve Stimulation (TENS))

By End User

Hospitals

Ambulatory Surgical Centers

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Australia

Japan

India

China

South Korea

Rest of Asia-Pacific

## LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

## KEY MARKET PLAYERS

Abiomed, Inc.

Abbott Laboratories

Asahi Kasei Corporation (Evaheart Medical U.S.A., Inc.)

Baxter International Inc.

Boston Scientific Corporation

Cochlear Ltd.

Edwards Lifesciences Corporation

Jarvik Heart, Inc.

Medtronic Plc.

Assur Americas, Inc.

Second Sight Medical Products, Inc.

SynCardia Systems LLC

The other players in the value chain include (profiles not included in the report):

Getinge AB

LivaNova PLC

Fresenius Medical Care AG & Co. KGaA

Heartware International Inc.

BiVACOR

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