

# Pulmonary Valve Replacement Market to Reach USD 1.6 Billion by 2031, Growing at a 4.9% CAGR | TMR Research

*Pulmonary Valve Replacement Market is projected to grow at a CAGR of 4.9% from 2023 to 2031 and reach more than US\$ 1.6 Bn by the end of 2031*

WILMINGTON, DE, UNITED STATES, December 19, 2024 /EINPresswire.com/ -- The [pulmonary valve replacement \(PVR\) market](#) is an integral part of the broader cardiovascular treatment landscape, addressing congenital and acquired heart valve conditions. Pulmonary valve replacement procedures restore proper blood flow between the heart and lungs, essential for maintaining cardiac health. Advances in medical technology, increasing prevalence of heart valve diseases, and rising awareness about minimally invasive procedures are driving the growth of this market.

With innovations such as transcatheter pulmonary valve replacement (TPVR) and bioengineered valves, the market is witnessing rapid evolution, providing patients with safer, more effective treatment options. It is projected to grow at a CAGR of 4.9% from 2023 to 2031 and reach more than US\$ 1.6 Bn by the end of 2031

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## Key Drivers of Growth

### Increasing Prevalence of Heart Valve Disorders

Rising cases of congenital heart diseases (CHD) and pulmonary valve regurgitation are driving the demand for replacement procedures.

### Advancements in Medical Technology

Innovations like minimally invasive TPVR have improved patient outcomes and recovery times, fueling market growth.

### Growing Geriatric Population

The aging population is at a higher risk for valve degeneration, increasing the need for replacement procedures.

## Rising Awareness and Diagnosis

Improved diagnostic techniques and growing awareness of heart health are leading to earlier detection and treatment of valve disorders.

## Supportive Regulatory Approvals

Frequent FDA and CE approvals for advanced pulmonary valve products are boosting market expansion.

## Recent Trends

### Adoption of Transcatheter Procedures

Minimally invasive TPVR is gaining traction due to its reduced recovery time and lower complication rates compared to open-heart surgery.

### Bioengineered Valves on the Rise

Tissue-engineered valves, offering longer durability and compatibility, are becoming a preferred choice for younger patients.

### Focus on Pediatric Applications

Manufacturers are developing valves tailored for pediatric patients to address congenital heart defects more effectively.

### Integration of AI and Imaging Technology

Artificial intelligence and advanced imaging techniques are enhancing pre-surgical planning and improving procedural accuracy.

### Growth in Emerging Markets

Increasing healthcare investments and medical tourism are driving demand for pulmonary valve replacement in developing regions.

## Top Companies:

Boston Scientific

Edwards Lifesciences

Medtronic

St. Jude Medical

Abbott Laboratories

Cryolife

LivaNova, Inc.

4C Medical Technologies, Inc.

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## Future Outlook

The pulmonary valve replacement market is poised for significant growth, fueled by technological advancements, increasing awareness, and a rising geriatric population. The transition toward minimally invasive procedures and the development of durable, bioengineered valves will shape the market's trajectory.

## Market Segmentation

### Valve Type

Mechanical Valve

Biological Valve

Donor Valve

Tissue Valve

### Application

Pulmonary Valve Stenosis

Pulmonary Atresia

Others

### End-user

Hospitals

Ambulatory Surgical Centers

Others

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## Regions

North America

Europe

Asia Pacific

Middle East & Africa

South America

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