

# Transcatheter Heart Valve Replacement Market to Reach USD 12 Billion by 2034, Driven by Aging Population

*Global Transcatheter Heart Valve Replacement Market to hit USD 12B by 2034, driven by aging population, tech innovations, and rising heart disease cases.*



Reports And Data

VANCOUVER, BC, CANADA, September 10, 2025 /EINPresswire.com/ -- The global [Transcatheter Heart Valve Replacement \(THVR\) Market](#) is on track

to experience steady growth over the next decade. Valued at USD 6.8 billion in 2024, the market is projected to expand to USD 12 billion by 2034, reflecting a compound annual growth rate (CAGR) of 5.8%. This growth is being fueled by rising cases of heart valve disorders, technological innovations, and the increasing demand for less invasive medical procedures.

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## Key Market Highlights

The demand for transcatheter valve replacement procedures is being driven by the growing number of people suffering from cardiovascular diseases, especially in older populations. According to the World Health Organization, the global population aged 60 and above is expected to grow significantly by 2030, increasing the need for advanced cardiac care solutions.

Among treatment types, aortic valve replacement is currently the largest segment, while mitral valve replacement is expected to grow at the fastest rate. The latter is supported by ongoing clinical trials and new product approvals that are expanding treatment options for patients.

The section on the competitive landscape offers valuable and actionable insights related to the business sphere of the Transcatheter Heart Valve Replacement market, covering extensive profiling of the key market players. The report offers information about market share, product portfolio, pricing analysis, and strategic alliances such as mergers and acquisitions, joint

ventures, collaborations, partnerships, product launches and brand promotions, among others.

## Transcatheter Heart Valve Replacement Competitive Strategies & Notable Developments Top 10 Companies

Edwards Lifesciences

Revenue: USD 5.2 Billion

Region: North America

Core Product: Transcatheter Aortic Valve Replacement

Market Position: 30% revenue share due to innovative valve technologies and strong clinical data.

Medtronic

Revenue: USD 4.5 Billion

Region: North America

Core Product: Transcatheter Mitral Valve Replacement

Market Position: 25% revenue share driven by extensive product portfolio and global reach.

Boston Scientific

Revenue: USD 3.8 Billion

Region: North America

Core Product: Transcatheter Pulmonary Valve Replacement

Market Position: 20% revenue share supported by strategic acquisitions and R&D investments.

Abbott Laboratories

Revenue: USD 3.5 Billion

Region: North America

Core Product: Transcatheter Tricuspid Valve Replacement

Market Position: 18% revenue share due to strong market presence and innovative product launches.

JenaValve Technology

Revenue: USD 1.2 Billion

Region: Europe

Core Product: Transcatheter Aortic Valve Replacement

Market Position: 10% revenue share driven by unique valve design and clinical success.

LivaNova

Revenue: USD 1.0 Billion

Region: Europe

Core Product: Transcatheter Mitral Valve Replacement

Market Position: 8% revenue share supported by strategic partnerships and product innovation.

#### CryoLife

Revenue: USD 0.8 Billion

Region: North America

Core Product: Transcatheter Pulmonary Valve Replacement

Market Position: 6% revenue share due to strong focus on niche markets and R&D.

#### Biotronik

Revenue: USD 0.7 Billion

Region: Europe

Core Product: Transcatheter Tricuspid Valve Replacement

Market Position: 5% revenue share driven by innovative technologies and global expansion.

#### Micro Interventional Devices

Revenue: USD 0.5 Billion

Region: North America

Core Product: Transcatheter Aortic Valve Replacement

Market Position: 4% revenue share supported by unique product offerings and clinical success.

#### Neovasc

Revenue: USD 0.4 Billion

Region: North America

Core Product: Transcatheter Mitral Valve Replacement

Market Position: 3% revenue share due to innovative product pipeline and strategic collaborations.

#### Applications and Adoption

Transcatheter valve replacement is most commonly used to treat aortic stenosis and mitral regurgitation, two conditions that are becoming more widespread as populations age. Unlike traditional open-heart surgery, these procedures offer patients a quicker recovery and less risk, making them the preferred option for many.

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#### Regional Outlook

North America leads the market, supported by advanced healthcare systems and strong adoption of innovative medical technologies.

Asia Pacific is expected to show the fastest growth, driven by rising investments in healthcare infrastructure and greater awareness of heart valve diseases.

#### Technological Developments

Emerging technologies are reshaping the market landscape. Artificial Intelligence (AI) is being integrated into surgical planning to improve accuracy and reduce risks. According to industry insights, AI-assisted procedures could lower surgical errors by up to 40%. Another notable trend is the development of biodegradable valve materials, which are designed to improve durability and patient compatibility.

Leading companies, including Edwards Lifesciences, Medtronic, and Boston Scientific, are at the forefront of innovation. In 2024, Edwards Lifesciences introduced its next-generation aortic valve, showing a 20% improvement in clinical outcomes during trials. Such product launches are expected to accelerate adoption and set new standards for patient care.

The report bifurcates the Transcatheter Heart Valve Replacement market on the basis of different product types, applications, end-user industries, and key regions of the world where the market has already established its presence. The report accurately offers insights into the supply-demand ratio and production and consumption volume of each segment.

## Transcatheter Heart Valve Replacement Market Segmentation

### By Product Type

- Transcatheter Aortic Valve Replacement (TAVR)
- Transcatheter Mitral Valve Replacement (TMVR)
- Transcatheter Pulmonary Valve Replacement (TPVR)
- Transcatheter Tricuspid Valve Replacement (TTVR)

### By Application

- Aortic Stenosis
- Mitral Regurgitation
- Other Heart Valve Disorders

### By End User

- Hospitals
- Ambulatory Surgical Centers
- Cardiac Catheterization Laboratories

### By Technology

- Balloon-Expandable Valve
- Self-Expandable Valve

## By Distribution Channel

Direct Sales

Distributors

## Market Drivers

**Aging population:** Increasing elderly demographics worldwide are boosting demand for advanced cardiac treatments.

**Technological progress:** AI-assisted surgical tools and next-generation valve materials are improving patient outcomes and reducing repeat procedures.

**Policy support:** Public funding and regulatory reforms, such as the FDA's expedited approval process for breakthrough devices, are speeding up access to innovative treatments.

## Market Restraints

Despite strong growth prospects, the market faces challenges. Stringent regulatory approval processes, especially in regions like the European Union under its Medical Device Regulation (MDR), can delay new product launches and add compliance costs.

The high cost of procedures, often exceeding USD 30,000 per patient, also limits access in lower-income regions. In addition, the complexity of these procedures requires highly skilled medical professionals, and many hospitals face shortages of trained staff. Surveys show that nearly two-thirds of healthcare providers cite a lack of trained personnel as a barrier to wider adoption. Limited long-term data on newer valve technologies also makes some providers cautious.

## Conclusion

The Transcatheter Heart Valve Replacement Market is poised for solid growth over the coming decade. While challenges remain in terms of affordability, regulations, and training, the market is benefiting from an aging population, strong technological innovations, and supportive policies. With major players investing heavily in research and new product development, patients worldwide are expected to gain better access to safer, more effective treatment options for heart valve disorders.

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