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Tricuspid Valve Repair Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Indication (Tricuspid Valve Regurgitation, Tricuspid Valve Stenosis), By End Use (Hospitals, Ambulatory Surgical Centers {ASCs}, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Tricuspid Valve Repair Market is projected to expand from USD 663.69 Million in 2025 to USD 957.96 Million by 2031, achieving a CAGR of 6.31%. This sector encompasses medical devices and procedural techniques designed to reconstruct the tricuspid valve and correct regurgitation without requiring replacement. Market growth is primarily fueled by the increasing burden of valvular heart disease among the geriatric population. For instance, the European Society of Cardiology estimated in 2024 that relevant tricuspid regurgitation affects 4% of individuals over the age of 75. This significant patient base, combined with a growing preference for minimally invasive transcatheter therapies that offer reduced recovery times, provides strong support for market development.

However, the inherent anatomical complexity of the tricuspid valve poses a substantial challenge to expansion, as it complicates device anchoring and visualization during interventions. Overcoming these difficulties requires advanced imaging infrastructure and highly specialized physician training, which often restricts the availability of these procedures to major academic centers. These technical barriers result in higher procedural costs and slower adoption rates in community hospital settings, thereby hindering the widespread accessibility necessary for broader market growth.

Market Driver

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Technological advancements in Transcatheter Tricuspid Valve Repair (TTVR) are reshaping the market by offering viable alternatives to high-risk surgical procedures. Recent regulatory approvals have validated devices capable of addressing the complex anatomy of the tricuspid valve, enabling the commercialization of new therapies. According to an Edwards Lifesciences press release in February 2024 regarding the first FDA approval for such a transcatheter therapy, approximately 99 percent of patients treated with the EVOQUE system saw severe leakage reduced to moderate levels or less. This clinical efficacy is driving rapid commercial adoption, as evidenced by Edwards Lifesciences' October 2024 report, which showed a 73 percent increase in Transcatheter Mitral and Tricuspid Therapies sales to 91 million dollars.

Additionally, the rising prevalence of tricuspid regurgitation (TR) and heart failure highlights a massive unmet need. Often referred to as the 'forgotten valve,' TR affects a large geriatric patient population that has historically lacked treatment options due to surgical risks. This gap between disease burden and intervention rates serves as a critical catalyst for growth. As noted by Abbott in an April 2024 press release announcing FDA approval for TriClip, tricuspid regurgitation affects more than 1.6 million people in the U.S. alone. As advanced diagnostics identify more eligible candidates for these newly approved minimally invasive repairs, the market is expanding to accommodate this substantial patient pool.

Market Challenge

The inherent anatomical complexity of the tricuspid valve represents a significant barrier to the growth of the Global Tricuspid Valve Repair Market. Unlike other cardiac valves, the tricuspid valve features a highly variable structure with fragile leaflets and a large, non-planar annulus, often presenting with three or more leaflets. These intricacies significantly complicate the anchoring of repair devices and necessitate exceptional visualization capabilities during interventions. Consequently, effective repair procedures demand highly specialized physician training and advanced imaging infrastructure, such as intraprocedural transesophageal echocardiography. These stringent technical requirements effectively limit the availability of these procedures to major academic medical centers, preventing their widespread adoption in community hospitals where such resources may be scarce.

This concentration of service availability creates a bottleneck that directly impedes market growth. Despite the high prevalence of valvular disease, the technical difficulties associated with tricuspid anatomy result in procedural volumes that are

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disproportionately low relative to the patient population. Data from the Society of Thoracic Surgeons in 2024 indicates that isolated tricuspid valve surgeries remain limited, with just over 2,000 cases performed annually in the United States. This low utilization rate demonstrates how technical challenges and the resulting procedural exclusivity are stalling the broader accessibility and commercial scalability of repair therapies.

Market Trends

The integration of AI-enhanced multimodality imaging is rapidly emerging as a critical trend, directly addressing the visualization challenges associated with the complex anatomy of the tricuspid valve. To overcome the difficulties of intra-procedural guidance, manufacturers are embedding artificial intelligence into echocardiography systems to automate view recognition and anatomical quantification. For example, Siemens Healthineers announced in an August 2024 press release that their newly cleared ACUSON Origin system features AI Assist capabilities, demonstrating a 99 percent accuracy rate for view classification and Doppler placement. This technological advancement reduces operator variability and streamlines workflow, thereby facilitating the precise anchoring required for effective transcatheter repair.

Concurrently, the acceleration of pivotal clinical trials and post-market registries is generating the robust long-term evidence needed to standardize repair protocols and support wider adoption. As the market moves beyond early feasibility stages, the release of mature data from large-scale studies is validating the durability of transcatheter edge-to-edge repair in diverse, real-world patient populations. According to an August 2024 report from the American College of Cardiology regarding the bRIGHT study, the Abbott TriClip system demonstrated sustained efficacy, with 81 percent of patients achieving tricuspid regurgitation of moderate or less at one year. These positive clinical outcomes are instrumental in building physician confidence and securing the reimbursement necessary for market expansion.

Key Market Players

%li%Medtronic Plc

%li%Edwards Lifesciences Corporation

%li%LivaNova Plc

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%li%Abbott Laboratories Inc.

%li%Corcym UK Limited

%li%Micro Interventional Devices, Inc.

%li%4C Medical Technologies, Inc.

%li%Venus Medtech (Hangzhou) Inc.

%li%TRiCares GmbH

%li%Trisol Medical

Report Scope

In this report, the Global Tricuspid Valve Repair Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

%li%Tricuspid Valve Repair Market, By Indication

%li%%li%Tricuspid Valve Regurgitation

%li%%li%Tricuspid Valve Stenosis

%li%Tricuspid Valve Repair Market, By End Use

%li%%li%Hospitals

%li%%li%Ambulatory Surgical Centers {ASCs}

%li%%li%Others

%li%Tricuspid Valve Repair Market, By Region

%li%%li%North America

%li%%li%%li%United States

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%li%%li%%li%Canada

%li%%li%%li%Mexico

%li%%li%Europe

%li%%li%%li%France

%li%%li%%li%United Kingdom

%li%%li%%li%Italy

%li%%li%%li%Germany

%li%%li%%li%Spain

%li%%li%Asia Pacific

%li%%li%%li%China

%li%%li%%li%India

%li%%li%%li%Japan

%li%%li%%li%Australia

%li%%li%%li%South Korea

%li%%li%South America

%li%%li%%li%Brazil

%li%%li%%li%Argentina

%li%%li%%li%Colombia

%li%%li%Middle East & Africa

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%li%%li%%li%South Africa

%li%%li%%li%Saudi Arabia

%li%%li%%li%UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Tricuspid Valve Repair Market.

Available Customizations:

Global Tricuspid Valve Repair Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

%li%Detailed analysis and profiling of additional market players (up to five).

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