# Global Structural Heart Imaging Market Report and Forecast 2024-2032

Market Report (7 Days) | 2024-04-19 | 140 pages | EMR Inc.

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**Report description:**

Global Structural Heart Imaging Market Report and Forecast 2017-2032

The global structural heart imaging market size was valued at USD 17.4 billion in 2023. It is expected to grow at a compound annual growth rate (CAGR) of 10.11% reaching a value of USD 41.3 billion by 2032. The major factors driving the growth of the global structural heart imaging market are the increasing prevalence of structural heart diseases, the rising adoption of minimally invasive therapies, the technological advancements in imaging modalities, and the growing geriatric population.
Structural heart imaging refers to the use of various imaging modalities, such as echocardiography, computed tomography (CT), magnetic resonance imaging (MRI), and nuclear imaging, to diagnose and monitor the structural abnormalities of the heart, such as valvular diseases, congenital defects, and cardiomyopathies. Structural heart imaging plays a vital role in the planning and guidance of minimally invasive procedures, such as transcatheter aortic valve replacement (TAVR), transcatheter mitral valve repair (TMVR), and left atrial appendage closure (LAAC).
According to the World Health Organization (WHO), cardiovascular diseases (CVDs) are the leading cause of death globally, accounting for 17.9 million deaths in 2019. Among CVDs, structural heart diseases, such as aortic stenosis, mitral regurgitation, and atrial septal defect, affect millions of people worldwide and pose a significant burden on the healthcare system. The demand for structural heart imaging is expected to increase as more patients seek early diagnosis and treatment of these conditions.
However, the global structural heart imaging market also faces some challenges, such as the high cost and complexity of imaging equipment, the lack of skilled and trained professionals, the stringent regulatory environment, and the reimbursement issues in some regions. These factors may hamper market growth to some extent during the forecast period.
Global Structural Heart Imaging Market Drivers and Constraints
Market Drivers
-The increasing prevalence of structural heart diseases, such as aortic stenosis, mitral regurgitation, and atrial septal defect, which require early diagnosis and treatment to prevent complications and mortality.
-The rising adoption of minimally invasive therapies, such as transcatheter aortic valve replacement (TAVR), transcatheter mitral valve repair (TMVR), and left atrial appendage closure (LAAC), which offer less morbidity, shorter hospital stay, and better outcomes than open-heart surgery.

-The technological advancements in imaging modalities, such as echocardiography, computed tomography (CT), magnetic resonance imaging (MRI), and nuclear imaging, which enable high-resolution, three-dimensional, and real-time visualization of the cardiac structures and function.
-The growing geriatric population, which is more prone to develop structural heart diseases due to aging-related changes in the cardiac valves and tissues.

Market Constraints

-The high cost and complexity of imaging equipment, which may limit the accessibility and affordability of structural heart imaging, especially in low- and middle-income countries.
-The lack of skilled and trained professionals, such as cardiologists, radiologists, and sonographers, who can perform and interpret structural heart imaging accurately and efficiently.
-The stringent regulatory environment, which may pose challenges for the approval and market entry of new and innovative imaging devices and software.
-The reimbursement issues in some regions may affect the adoption and utilization of structural heart imaging, especially for novel and expensive procedures.

Global Structural Heart Imaging Market Trends and Developments

The global structural heart imaging market has been experiencing several key trends in recent years, driven by advancements in technology, increasing prevalence of structural heart diseases, and a growing emphasis on early and accurate diagnosis. Here are some of the latest market trends:

-Advancements in Imaging Technologies: There has been significant progress in imaging technologies such as echocardiography, computed tomography (CT), and magnetic resonance imaging (MRI). 3D imaging, for instance, provides detailed views of heart structures, facilitating better diagnosis and treatment planning.
-Integration of Artificial Intelligence (AI): AI and machine learning are increasingly being integrated into structural heart imaging systems. AI algorithms can assist in automating image analysis, improving accuracy, and reducing diagnosis time.
-Minimally Invasive Procedures: The rise in minimally invasive procedures for treating structural heart diseases, such as transcatheter aortic valve replacement (TAVR) and transcatheter mitral valve repair (TMVR), is driving the demand for precise imaging techniques to guide these procedures.
-Portable and Handheld Devices: There is a growing trend towards the development of portable and handheld imaging devices. These devices are especially useful in remote areas and for point-of-care diagnostics.
-Focus on Personalized Medicine: Personalized treatment plans based on detailed structural heart imaging are becoming more common. This approach ensures that patients receive tailored therapies that are most likely to be effective for their specific condition.
-Collaboration between Industry and Healthcare Providers: Partnerships between imaging technology companies and healthcare providers are increasing, aiming to develop innovative solutions and improve patient outcomes.
-Expansion in Emerging Markets: The structural heart imaging market is expanding in emerging economies due to increasing awareness of heart diseases, improving healthcare infrastructure, and rising healthcare expenditures.
-Regulatory Approvals for Advanced Systems: Regulatory approvals for new and advanced imaging systems are accelerating their adoption in clinical practice. These systems offer enhanced resolution and clearer images for better diagnosis and treatment planning.

These trends indicate a dynamic and evolving market, with technological advancements and a focus on patient-centered care driving growth in the global structural heart imaging market.

Global Structural Heart Imaging Market Segmentation

Market Breakup by Imaging Modality

-Echocardiography (2D and 3D)
-Magnetic Resonance Imaging (MRI)
-Computed Tomography (CT)
-Angiography (including Transesophageal Echocardiography)
-Nuclear Imaging

-Others
Market Breakup by Imaging Application
-Valvular Heart Disease
-Congenital Heart Disease
-Cardiomyopathy
-Others
Market Breakup by Imaging Technology
-2D Imaging
-3D Imaging
-4D Imaging
-Doppler Imaging
-Contrast Imaging
Market Breakup by Imaging Test Type
-Stress Testing
-Transthoracic Echocardiogram (TTE)
-Transesophageal Echocardiogram (TEE)
-Cardiac Catheterization
-Others
Market Breakup by Imaging End User
-Hospitals
-Diagnostic Imaging Centers
-Ambulatory Surgical Centers
-Others
Market Breakup by Region
-North America
-Europe
-Asia Pacific
-Latin America
-Middle East and Africa
Global Structural Heart Imaging Market Competitive Landscape
The global structural heart imaging market is highly competitive and fragmented, with the presence of several large and small players. The key players in the market are focusing on product innovation, strategic partnerships, mergers and acquisitions, and geographic expansion to gain a competitive edge and increase their market share.
Some of the key players and recent developments in the market are General Electric Company (GE Healthcare), Siemens Healthineers AG, Koninklijke Philips N.V., Canon Medical Systems Corporation, Hitachi, Ltd., Shimadzu Corporation, Esaote S.p.A., FUJIFILM Holdings Corporation, Samsung Medison Co., Ltd., Carestream Health, Inc., Toshiba Corporation (Canon Medical Systems), ESAOTE SPA, Mindray Medical International Limited, Pie Medical Imaging, and 3mensio Medical Imaging B.V. (A part of Pie Medical Imaging).

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* The coverage of the Market Landscape section depends on the data availability and may cover a minimum of 80% of the total market. The EMR team strives to make this section as comprehensive as possible.

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