

Thoracic Aortic Aneurysm Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Treatment (Open Surgical Repair (OSR), Thoracic Endovascular Aneurysm Repair (TEVAR), Hybrid Procedures, Branched Endovascular Aneurysm Repair (BEVAR), Others), By End Use (Hospitals, Ambulatory surgery centers (ASC), Clinics, Others), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

Global Thoracic Aortic Aneurysm Market was valued at USD 3.28 Billion in 2024 and is expected to reach USD 7.61 Billion by 2030 with a CAGR of 4.77%. This is driven by increasing prevalence of cardiovascular diseases, advances in diagnostic technologies, and rising awareness about early detection and treatment. Thoracic aortic aneurysm, characterized by the abnormal bulging of the aorta in the chest region, poses significant health risks including life-threatening ruptures if left untreated.

Market expansion is supported by technological innovations in minimally invasive surgical techniques, such as endovascular aneurysm repair (EVAR), which offer safer and more effective treatment options compared to traditional open surgery. Key challenges include the high cost of advanced surgical procedures and devices, as well as limited accessibility to specialized healthcare facilities in certain regions, which may restrict market penetration.

Key Market Drivers

Growth in Healthcare Industry

The rapid growth of the global healthcare industry is a significant driver propelling the expansion of the thoracic aortic aneurysm (TAA) market. The global healthcare industry generates annual sales exceeding USD 4 trillion. The largest and most lucrative segments are pharmaceuticals and biotechnology, accounting for nearly USD 850 billion, and medical technology and diagnostics, which exceed USD 400 billion in revenue. Increased healthcare expenditure, advancements in diagnostic technologies, and the rising prevalence of cardiovascular diseases are collectively fueling demand for effective TAA detection and treatment solutions worldwide.

As healthcare infrastructure improves globally, more patients are gaining access to specialized cardiovascular care, leading to higher diagnosis rates and increased adoption of surgical and minimally invasive interventions for thoracic aortic aneurysms. The PEN-Plus strategy decentralizes specialized cardiovascular care to district hospitals by reallocating responsibilities to multidisciplinary teams of midlevel professionals. It aims to ensure sustainability by enhancing health literacy to encourage self-management, leveraging community health workers to improve patient retention, engaging peer-support groups, and establishing clear referral and counter-referral pathways for patients with cardiovascular disease (CVD). Furthermore, growing awareness about cardiovascular health and early screening initiatives are contributing to market growth.

Key Market Challenges

Late Diagnosis and Asymptomatic Nature

One of the primary challenges confronting the global thoracic aortic aneurysm market is the condition's asymptomatic nature, which often leads to late diagnosis. Many patients with thoracic aortic aneurysms remain unaware of their condition until symptoms manifest in advanced stages or until life-threatening complications, such as aortic rupture or dissection, occur. This silent progression significantly complicates timely intervention and treatment.

The lack of early, noticeable symptoms poses a major barrier for healthcare providers in identifying at-risk individuals before critical damage occurs. Consequently, patients frequently present with the disease at a stage when therapeutic options are more complex, invasive, and associated with higher risks. Moreover, limited awareness

among the general population and inadequate routine screening protocols contribute to delayed detection.

Key Market Trends

Advanced Clinical Practices and Personalized Treatment

The adoption of advanced clinical practices and personalized treatment approaches is a key trend shaping the global thoracic aortic aneurysm (TAA) market. Open-chest thoracic aortic aneurysm repair continues to be the standard surgical treatment for thoracic aortic aneurysms (TAAs), representing the established approach for managing this condition. This procedure remains the preferred method due to its proven effectiveness in addressing complex aneurysms within the thoracic aorta. Innovations in diagnostic imaging, genetic profiling, and minimally invasive surgical techniques are enabling healthcare providers to tailor interventions more precisely to individual patient needs.

Personalized treatment strategies, supported by enhanced risk assessment tools and patient-specific data, are improving the accuracy of aneurysm detection, monitoring, and management. This approach reduces complications, optimizes therapeutic outcomes, and enhances patient quality of life. Moreover, the integration of multidisciplinary care teams and the use of advanced endovascular devices reflect a broader shift towards precision medicine in TAA treatment.

Key Market Players

Medtronic plc

W.L. Gore & Associates, Inc.

Cook Medical Inc.

Terumo Corporation

MicroPort Scientific Corporation

Boston Scientific Corporation

Artivion Inc.

Cardiatis S.A.

Endologix Inc.

Braile Biomédica

Report Scope

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

Thoracic Aortic Aneurysm Market, By Treatment:

Open Surgical Repair (OSR)

Thoracic Endovascular Aneurysm Repair (TEVAR)

Hybrid Procedures

Branched Endovascular Aneurysm Repair (BEVAR)

Others

Thoracic Aortic Aneurysm Market, By End Use:

Hospitals

Ambulatory surgery centers (ASC)

Clinics

Others

Thoracic Aortic Aneurysm Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Thoracic Aortic Aneurysm Market.

Available Customizations:

Global Thoracic Aortic Aneurysm 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

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

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