

Aortic Stent Grafts Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product (Abdominal Aortic Stent Graft and Thoracic Aortic Stent Graft), End User (Hospitals and Ambulatory Surgical Centers), and Geography (North America, Europe, Asia Pacific, South & Central America, and Middle East & Africa)

<https://marketpublishers.com/r/A6306D634D3FEN.html>

Date: March 2024

Pages: 150

Price: US\$ 5,190.00 (Single User License)

ID: A6306D634D3FEN

Abstracts

The aortic stent grafts market is projected to grow from US\$ 2.49 billion in 2023 to US\$ 4.03 billion by 2031; the market is estimated to record a CAGR of 6.2% during 2023–2031.

Key factors driving the market growth are the increasing incidence of aortic aneurysms and the rising demand for minimally invasive procedures such as endovascular repairs. However, product recalls initiated by the market players hinder the market growth. Furthermore, technological advancements and strategic activities by the manufacturers are expected to bring new aortic stent grafts market trends in the coming years.

Market Drivers and Restraints of the Aortic Stent Grafts Market

The rising prevalence of aortic aneurysms contributes to the aortic stent grafts market growth. According to the article published by Elsevier in March 2021, abdominal aortic aneurysms (AAA) are found in 2% to 8% of people in developed countries. It can progress to life-threatening rupture, with mortality rates as high as 80% if left untreated. Aortic stent grafts are a critical component of endovascular repair of aortic aneurysms.

According to the AAA standards report 2020 to 2021 published by the National Health Service (NHS) AAA screening program in April 2022, ~210,800 men were offered screening, during which 1,542 aneurysms cases were detected. Among the patients detected with aneurysms, 88.8% who were suitable for elective repair underwent the procedure. Obesity, smoking, and a sedentary lifestyle are among the risk factors for this cardiovascular condition. The geriatric population is more vulnerable to developing cardiovascular diseases, including aortic aneurysms, owing to which they often require endovascular aneurysm repair (EVAR) surgeries. Aortic stent grafts are majorly used in these surgeries owing to their advantages, such as reduced hospital and ICU stay and blood loss, over traditional open repair surgeries. Therefore, the high number of surgeries for aortic aneurysms drives the aortic stent grafts market growth.

However, increasing product recalls in the aortic stent graft market have raised concerns among healthcare providers and patients. These recalls can be due to design flaws, manufacturing defects, or inadequate safety standards. A few product recalls by the key players in the aortic stent graft market are mentioned below:

In May 2023, Terumo Aortic issued a voluntary recall of specific lots of the Terumo Aortic TREO Abdominal Stent-Graft Systems due to the potential issue of having an incorrectly sized graft.

In February 2021, Medtronic recalled its unused Valiant Navion thoracic stent graft system due to a risk of stent fractures and Type III endoleaks.

In May 2020, Endologix Inc. announced a recall of its Ovation iX product due to the risk of liquid polymer leaks during implantation. The company stated that the root cause of most polymer leaks was a material weakness during manufacturing.

As a result of product recalls, trust in certain brands and products may diminish, leading to a potential decline in demand for aortic valve replacement devices. In addition, patients and medical professionals may become extra cautious when considering these devices, preferring to opt for alternatives or delaying procedures. Thus, an increase in product recalls hampers the aortic stent grafts market growth.

Aortic Stent Grafts Market: Segmental Overview

The aortic stent grafts market is segmented on the basis of product and end user. By

product, the market is bifurcated into abdominal aortic stent grafts and thoracic aortic stent grafts. The abdominal aortic stent graft segment held a larger market share in 2023. Abdominal aortic stent grafts are medical devices utilized in EVAR to treat aortic aneurysms of the abdomen. This stent graft is implanted inside the abdominal aorta of the patient to help protect the aneurysm from rupturing. Increasing cases of AAA and the rising demand for minimally invasive surgery for treatment are boosting the demand for these stent-grafts in the market.

In terms of end users, the aortic stent grafts market is segmented into hospitals and ambulatory surgical centers. The hospital segment is anticipated to hold a significant market share during 2023–2031, owing to the presence of specialized and complex scientific instruments. These organizations employ teams of trained staff educated in the problems of modern medical science. They serve a significant role by providing extensive medical services to patients with various diseases. Therefore, hospitals are the primary end users of aortic stent graft devices as they offer a wide range of medical services, including invasive procedures such as EVAR and thoracic endovascular aortic repair (TEVAR).

Aortic Stent Grafts Market: Geographical Overview

The scope of the global brachytherapy devices market report entails North America (the US, Canada, and Mexico), Europe (Germany, France, Italy, the UK, Spain, and the Rest of Europe), Asia Pacific (China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific), the Middle East & Africa (South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa), and South & Central America (Brazil, Argentina, and the Rest of South & Central America). North America held a major aortic stent grafts market share in 2023, followed by Europe; the market in the Asia Pacific region is growing with the highest CAGR during the forecast period. The growth of the aortic stent grafts market in this region is attributed to the rising incidence of aortic aneurysm and its risk factors in the region.

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