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Atherectomy Devices Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Directional, Rotational, Laser, Orbital), By Application (Peripheral, Cardiovascular, Neurovascular), By End User (Hospitals & Surgical Centres, Ambulatory Care Centres, Others), By Region and Competition, 2019-2029F

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Abstracts

Global Atherectomy Devices Market was valued at USD 890.45 Million in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 6.08% through 2029. Global atherectomy devices market is expected to grow at a significant rate for the forecast period. Growth in the target patient population and developing healthcare infrastructure are the two significant contributing factors leading to surge in the market growth for the next five years. The global atherectomy devices market is witnessing significant growth owing to the increasing prevalence of cardiovascular diseases and technological advancements in atherectomy devices. The market is expected to continue to grow during the forecast period, with the rotational atherectomy devices segment accounting for the largest share of the market. The key players in the market are focusing on product innovation and strategic collaborations to strengthen their market positions and expand their product portfolios. These factors are expected to propel the growth of Global Atherectomy Devices Market.

Key Market Drivers

Growing Prevalence of Cardiovascular Disorders

The global prevalence of cardiovascular diseases is on the rise, owing to factors such

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as sedentary lifestyles, unhealthy diets, and rising levels of stress. According to the World Health Organization (WHO), cardiovascular diseases are the leading cause of death globally, accounting for an estimated 17.9 million deaths each year. Atherectomy devices are increasingly being used to treat cardiovascular diseases, which is driving the growth of the global atherectomy devices market. The prevalence of cardiovascular diseases, minimal invasive surgeries, trauma, and injuries either caused due to lack of physical inactivity, tobacco use and harmful use of alcohol. The effect of risk factors observed in individuals in the form of fluctuating blood pressure, increase blood glucose, rise in blood lipids, overweight and obesity. These risks factors can be measured in primary care facilities and indicate an increased risk of heart attack, stroke, heart failure and other complications which is expected to propel the growth of global atherectomy devices market.

New Product Launch and Healthcare Development

The continuous development of healthcare infrastructure and introduction of supportive healthcare policies to widen the reach of healthcare facilities and increase its affordability is expected to bolster the atherectomy devices market growth. For instance, in March 2020, a company namely Straub Medical LLC has launched an atherectomy device called ‘Rotarex S’ used in the treatment of occlusive peripheral vascular disease. The healthcare industry is witnessing dynamic activities in the form of new product approvals and increasing commercialization in various geographical locations. Other competitive strategies include mergers & acquisitions and new service developments for propelling the growth of global atherectomy devices market.

One of the recent developments in the atherectomy devices market is the introduction of advanced technologies that offer better precision and control during procedures. For example, in 2019, Avinger, Inc., a medical device company, announced the launch of its next-generation Pantheris SV atherectomy system. This system is designed to provide physicians with better visibility and control during procedures, resulting in improved clinical outcomes for patients.

Another key development in the market is the increasing adoption of laser atherectomy devices. Laser atherectomy devices use laser energy to vaporize plaque in the arteries, and they are becoming increasingly popular due to their precision and effectiveness. In 2021, Cardiovascular Systems, Inc. (CSI), a medical device company, announced the launch of its Diamondback 360® Coronary Orbital Atherectomy System (OAS) with Stealth 360® Technology, which uses a diamond-coated crown to remove plaque and a laser to vaporize any remaining plaque. This in turn, expected to drive the growth of the

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market. The atherectomy devices market is also seeing increased investment and partnership activities.

Surge in the Usage of Atherectomy Devices

The atherectomy devices works on special procedure which is minimally invasive in nature and restores the requisite blood flow in the affected arteries. The increase in the prevalence of life-threatening diseases like heart diseases, coronary artery diseases, cancer, etc. are expected to drive the growth of the global atherectomy devices market. According to National Centre for Biotechnology Information, National Institute of Health, globally the prevalence for coronary artery disease (CAD) is around 5–8% and the prevalence for peripheral artery disease (PAD) is around 10–20% and according to American Heart Association, the death caused due to cardiovascular diseases accounts for around 874,613 deaths in the United States in 2019. Due to this growing prevalence, the awareness of diagnosis treatment of the peripheral coronary disease may surge for the usage of the atherectomy devices in the hospital sector.

Technological Advancements & Rising Demand for Minimally Invasive Procedures

Technological advancements in atherectomy devices are also driving the growth of the global market. Manufacturers are increasingly investing in research and development to develop more effective and efficient atherectomy devices. For instance, several new devices have been introduced in recent years that use laser technology to remove plaque from arteries. These devices offer several advantages over traditional atherectomy devices, such as reduced risk of complications and faster recovery times. The demand for minimally invasive procedures is on the rise, owing to factors such as faster recovery times, reduced risk of complications, and lower healthcare costs. Atherectomy is a minimally invasive procedure, which is driving the demand for atherectomy devices. These devices offer several advantages over traditional surgical procedures, such as reduced pain and scarring. As these trends continue, the global atherectomy devices market is expected to continue to grow in the forecast years.

Key Market Challenges

Technological Complexity and Cost

One of the significant challenges facing the Global Atherectomy Devices Market is the technological complexity and associated costs. Atherectomy devices utilize advanced technologies such as laser, rotational, orbital, or directional atherectomy to remove

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plaque buildup from arteries. However, the development and integration of these sophisticated technologies into medical devices require substantial investment in research, development, and manufacturing. Consequently, the high cost of atherectomy devices poses a challenge for healthcare facilities, particularly in regions with limited financial resources or reimbursement constraints.

Adoption Barriers and Training

The adoption of atherectomy devices among healthcare professionals presents another challenge due to the specialized skills and training required for their use. Performing atherectomy procedures demands proficiency in catheter-based techniques and a thorough understanding of vascular anatomy and pathology. Therefore, healthcare providers may encounter challenges in adequately training their staff and ensuring consistent proficiency across different clinical settings. The limited exposure to atherectomy procedures during medical training programs may contribute to the reluctance of some physicians to adopt these devices in their clinical practice.

Key Market Trends

Shift towards Minimally Invasive Procedures

There is a growing trend towards minimally invasive interventions for the treatment of peripheral artery disease, fostering the adoption of atherectomy devices. Minimally invasive procedures offer several advantages over traditional open surgeries, including reduced risk of complications, shorter hospital stays, and faster recovery times. Atherectomy procedures, characterized by small incisions and catheter-based techniques, enable targeted removal of atherosclerotic plaque while preserving vessel integrity and function. As patients and physicians increasingly prioritize minimally invasive approaches, the demand for atherectomy devices is expected to rise, driving market growth.

Increasing Emphasis on Outpatient Care

The healthcare landscape is witnessing a paradigm shift towards outpatient care models, driven by factors such as cost containment, patient convenience, and advancements in medical technology. Outpatient settings, including ambulatory surgery centers (ASCs) and office-based labs (OBLs), are increasingly becoming preferred sites for atherectomy procedures due to their efficiency, accessibility, and lower procedural costs compared to traditional hospital settings. Atherectomy devices that are compatible

with outpatient settings, offering ease of use, portability, and efficient workflow integration, are poised to gain traction in the market as healthcare providers strive to meet the evolving needs of patients and optimize resource utilization.

Segmental Insights

Product Insights

Based on the product, directional atherectomy devices have emerged as a dominant force, commanding a significant share of the market. Directional atherectomy devices employ a specialized cutting mechanism to precisely remove plaque from occluded arteries while minimizing damage to healthy vascular tissue. These devices typically feature a rotating cutting blade or burr positioned at the distal end of a catheter. As the catheter advances through the affected artery, the cutting blade engages with the plaque, allowing controlled removal through directional cutting motions.

One of the key factors driving the dominance of directional atherectomy devices is their proven efficacy in plaque removal across a wide range of lesion types and vessel anatomies. The directional cutting mechanism enables clinicians to navigate tortuous vessels and address complex lesions with greater precision and confidence. This versatility makes directional atherectomy devices suitable for a diverse patient population, including those with calcified or fibrous plaque, which may be challenging to treat with alternative methods. Directional atherectomy devices offer clinicians real-time feedback and control during the procedure, allowing for adjustments in cutting depth and direction as needed. This dynamic adaptability enhances procedural outcomes and contributes to high rates of procedural success and patient satisfaction.

End User Insights

Based on the end user segment, hospitals & surgical centers emerge as the dominant setting for atherectomy procedures, wielding considerable influence in shaping market dynamics and patient care pathways. Hospitals & surgical centers serve as the cornerstone of cardiovascular care, offering a comprehensive range of diagnostic, therapeutic, and surgical interventions for patients with atherosclerotic cardiovascular disease. These facilities boast state-of-the-art infrastructure, advanced imaging technologies, and a multidisciplinary team of healthcare professionals, including interventional cardiologists, vascular surgeons, and catheterization laboratory staff.

One of the key factors contributing to the dominance of hospitals & surgical centers in

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the atherectomy devices market is their capacity to handle complex and high-risk cases. Patients with severe arterial blockages, complex lesion morphologies, and comorbid conditions often require specialized care and advanced interventional techniques, such as atherectomy, to achieve optimal outcomes. Hospitals & surgical centers are well-equipped to address these challenging cases, offering specialized expertise, advanced procedural capabilities, and access to a comprehensive range of adjunctive therapies.

Regional Insights

North America stands out as the dominant region, commanding a significant share of market revenue and driving innovation, adoption, and utilization of atherectomy devices. This dominance is attributed to several key factors that underscore the region's robust healthcare infrastructure, technological advancements, and favorable reimbursement landscape. North America boasts a well-established healthcare ecosystem characterized by a network of leading hospitals, academic medical centers, and specialty clinics equipped with state-of-the-art facilities and advanced interventional cardiology laboratories. These institutions leverage atherectomy devices to address a wide spectrum of cardiovascular diseases, including coronary artery disease, peripheral artery disease, and other vascular conditions, thereby driving substantial demand for atherectomy procedures and devices.

North America serves as a hotbed of innovation and research in the field of cardiovascular medicine, with prominent medical device companies, research organizations, and academic institutions actively engaged in the development and commercialization of novel atherectomy technologies. The region's conducive regulatory environment, coupled with robust investment in research and development, fosters continuous advancements in atherectomy device design, functionality, and performance, driving market growth and technological evolution. The favorable reimbursement landscape in North America incentivizes healthcare providers to adopt and utilize atherectomy devices for the management of cardiovascular diseases. Reimbursement policies, including coverage for atherectomy procedures and associated medical devices, contribute to the widespread adoption of these technologies and ensure equitable access to advanced cardiovascular care for patients across the region.

Key Market Players

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Abbott Laboratories, Inc.

Koninklijke Philips N.V.

Boston Scientific Corporation

Medtronic plc

Becton, Dickinson, and Company

Terumo Corporation

Cardinal Health Inc.

AngioDynamics Inc.

Avinger Inc.

Report Scope:

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

Atherectomy Devices Market, By Product:

Directional

Rotational

Laser

Orbital

Atherectomy Devices Market, By Application:

Peripheral

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Cardiovascular

Neurovascular

Atherectomy Devices Market, By End User:

Hospitals & Surgical Centres

Ambulatory Care Centres

Others

Atherectomy Devices Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

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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 Atherectomy Devices Market.

Available Customizations:

Global Atherectomy Devices 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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