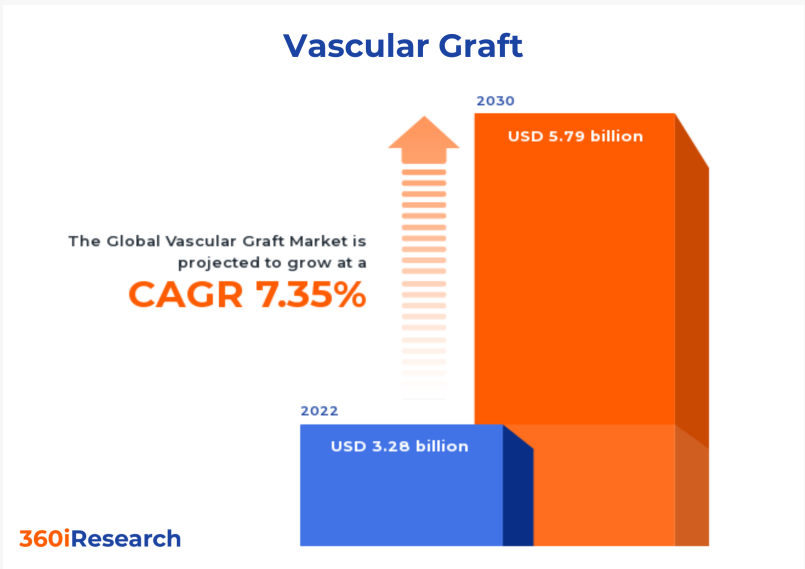
Vascular Graft Market worth $5.79 billion by 2030, growing at a CAGR of 7.35% - Exclusive Report by 360iResearch

The Global Vascular Graft Market to grow from USD 3.28 billion in 2022 to USD 5.79 billion by 2030, at a CAGR of 7.35%.

PUNE, MAHARASHTRA, INDIA , November 17, 2023 / EINPresswire.com/ -- The "Vascular Graft Market by Raw Material (Biological Materials, Polyester, Polytetrafluoroethylene), Product (Coronary Artery By-Pass Graft, Endovascular Stent Graft, Hemodialysis Access Graft), Application, End-User - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



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A vascular graft is a surgical process that redirects blood flow around a blocked or partially blocked artery in the heart by using a blood vessel taken from another part of your body, also known as a graft. Vascular grafts can be made from various materials, including synthetic polymers, such as polytetrafluoroethylene (PTFE) and polyurethane, and biological materials, such as collagen and human or animal tissue. The rise in the prevalence of vascular disorders and the rise in the geriatric population prone to cardiovascular diseases increases the adoption of vascular grafts. However, the risk of complications post-implantation of a vascular graft, such as graft infection and blood clots, may further hinder the adoption of the vascular graft. Nevertheless, the rise of biomaterial research for developing advanced, biocompatible grafts and the ongoing advancements in vascular imaging technologies such as 3D angiography offer

potential for significant growth opportunities for the market.

Product: Proliferating usage of peripheral vascular graft for restoring blood flow in patients with blockages in the peripheral arteries
Coronary Artery Bypass Graft (CABG) is a surgically created connection between the coronary artery and aorta or larger veins that enables blood flow to bypass blockage in the heart. CABG is generally preferred when the patient has multiple artery diseases, left main coronary artery disease, or severe symptoms of coronary artery disease. An endovascular stent graft is a tube comprised of fabric supported by a metal mesh used to treat ailments such as abdominal aortic aneurysms. The patient population with a high surgical risk or refusal of open surgery prefers this. Hemodialysis access grafts are surgically implanted to provide a durable and reliable access point for hemodialysis treatments in patients with chronic kidney disease. They are preferred when patients' vessels are not suitable for creating arteriovenous (AV) fistula. Peripheral vascular grafts help restore blood flow to the parts of the body other than the brain and the heart. Used primarily in cases of peripheral artery disease, these grafts prove beneficial for patients with blockages in the peripheral arteries.

End-User: Significant applications of vascular grafts in ambulatory surgical centers (ASCs)
Ambulatory Surgical Centers (ASCs) commonly perform procedures such as bypass surgery or placing stents, which often require the implantation of vascular grafts. The ASGs are witnessing a surge in vascular graft usage due to their focus on providing cost-effective, high-quality care that results in improved recovery and better patient satisfaction. Hospital-based procedures requiring vascular grafts remain high, with a constantly growing need due to complex surgeries being performed. Grafts deployed in the hospital setting often need to serve diverse surgical requirements, necessitating a broad portfolio of options. Hospitals have been traditionally more centered on complicated surgeries requiring vascular grafts. However, the rise in minimally invasive procedures and the trend towards cost-saving is shifting preferences towards ASCs.

Application: Significant use of vascular grafts in treating cardiovascular diseases
Aneurysms, defined as abnormal extensions or bulges in blood vessel walls, often require intervention through vascular grafts. These grafts, utilizing synthetic materials or autogenous tissue, are used to bypass the aneurysmal site, helping to prevent rupture and subsequent serious consequences. New developments in the field have led to the creation of endovascular stent grafts for treating abdominal and thoracic aortic aneurysms, offering a less invasive alternative to traditional open surgery. Cardiovascular disease is another area where vascular grafts have a pivotal role. Coronary artery disease, peripheral artery disease, and massive myocardial infarction necessitate the use of these grafts. Surgeons utilize them for procedures such as coronary artery bypass grafting (CABG) and peripheral bypass procedures, restoring blood flow to ischemic areas, subsequently reducing cardiac morbidity and mortality. Diabetes often leads to peripheral vascular disease characterized by occlusive and stenotic lesions in the peripheral arteries. Vascular grafts, including autologous veins and synthetic materials, are used for bypassing these occluded sections, helping restore perfusion and reducing the risk of limb amputations. Renal or kidney failure, specifically end-stage renal disease (ESRD), requires life-

saving hemodialysis. This process mandates reliable vascular access, achieved through the creation of arteriovenous fistulae (AVF) or grafts (AVG) for continuous dialysis access. Vascular occlusion, relating to blockage or closure of blood vessels, is a common condition necessitating the use of vascular grafts. Vascular grafts serve as conduits to restore blood flow, able to withstand the body's natural hemodynamic forces. Intraluminal stent grafts or bypass grafts, comprising biological, biocompatible, or synthetic materials, are often employed depending on the location and extent of occlusion.

Raw Material: Burgeoning utilization of polytetrafluoroethylene-based vascular grafts owing to their biocompatibility and flexibility
The vascular grafts made from biological materials, including human saphenous and umbilical veins, are used widely due to their inherent compatibility and decreased chances of rejection in the human body. They display moderate compliance, excellent long-term patency, and minimal antigenicity. These materials are preferred for vascular grafts that require a smaller diameter, such as lower extremity bypass procedures or coronary artery bypass grafting. Tissue-engineered materials are engineered to mimic the natural body tissue and have the advantage of being biocompatible and biodegradable. The goal of tissue-engineered grafts is to provide a living, autologous construct that could grow with the patient, remodel, and repair itself while reducing the risk of graft failure, infection, and rejection. Polyester grafts exhibit enhanced tensile strength; they tend to be less compliant than natural blood vessels. PTFE, on the other hand, while not as durable as polyester, presents high hemocompatibility and is more commonly used due to its flexibility and superior biocompatibility. Polyurethane is a useful material due to its tunable properties, including variable hardness, flexibility, elasticity, and biostability.

Regional Insights:
The vascular graft market is evolving in the Americas owing to technological advancements, rising healthcare expenditure, and the prevalence of cardiovascular disorders and diabetes in the region. Strong focus on regulatory compliance and safety measures, substantial research and development projects, increasing awareness regarding vascular grafts, and growing healthcare infrastructure encourage using vascular graft procedures to improve treatment outcomes in the EMEA region. Growing prevalence of lifestyle diseases and the accelerating expansion of healthcare services, significant medical technology advancements are resulting in the development of enhanced vascular graft procedures in the APAC region. Besides, the development of bioengineered vascular grafts that mimic the natural blood vessel structure and composition is anticipated to increase the use of this medical procedure by health professionals to treat various medical conditions.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Vascular Graft Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which

represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Vascular Graft Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Vascular Graft Market, highlighting leading vendors and their innovative profiles. These include Abbott Laboratories, Affluent Medical, B. Braun Melsungen AG, Becton, Dickinson and Company, BIOVIC Sdn. Bhd., Boston Scientific Corporation, Cardinal Health Inc., Cook Medical, Inc., Corcym S.r.l., CryoLife, Inc., Endologix Inc., Getinge AB, Heart Medical Europe B.V., Japan Lifeline Co., Ltd., Lemaitre Vascular, Inc., Medtronic PLC, Merit Medical Systems, Inc., Perouse Medical SAS by Vygon SAS, Rua Life Sciences PLC, Shanghai Suokang Medical Implants Co. Ltd., Terumo Corporation, Vascular Graft Solutions Ltd., VUP Medical, W. L. Gore & Associates, Inc., and Xeltis B.V..

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Market Segmentation & Coverage:

This research report categorizes the Vascular Graft Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Raw Material, market is studied across Biological Materials, Polyester, Polytetrafluoroethylene, and Polyurethane. The Biological Materials is further studied across Human Saphenous & Umbilical Veins and Tissue Engineered Materials. The Polyester is projected to witness significant market share during forecast period.

Based on Product, market is studied across Coronary Artery By-Pass Graft, Endovascular Stent Graft, Hemodialysis Access Graft, and Peripheral Vascular Graft. The Endovascular Stent Graft is projected to witness significant market share during forecast period.

Based on Application, market is studied across Aneurysm, Cardiovascular, Diabetes, Kidney Failure, and Vascular Occlusion. The Kidney Failure is projected to witness significant market share during forecast period.

Based on End-User, market is studied across Ambulatory Surgical Center and Hospital. The Hospital is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 37.28% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

The report provides insights on the following pointers:
1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D

activities, and breakthrough product developments

The report answers questions such as:
1. What is the market size and forecast of the Vascular Graft Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Vascular Graft Market?
3. What is the competitive strategic window for opportunities in the Vascular Graft Market?
4. What are the technology trends and regulatory frameworks in the Vascular Graft Market?
5. What is the market share of the leading vendors in the Vascular Graft Market?
6. What modes and strategic moves are considered suitable for entering the Vascular Graft Market?

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