

Vascular Grafts Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global vascular grafts market size reached US\$ 1.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 2.6 Billion by 2028, exhibiting a growth rate (CAGR) of 6.1% during 2023-2028.

Vascular grafts are medical devices mainly used in vascular bypass procedures to direct the blood flow from one area of the body to another by reconnecting the blood vessels. They are manufactured using polyurethane (PU), biosynthetic, polyester, and polytetrafluoroethylene (PTFE) materials. Vascular grafts are commonly employed to replace injured veins, arteries, blood vessels, and valves during organ transplantation or hemodialysis. Other instances wherein medical practitioners require vascular grafts include vascular occlusion, aneurysms, kidney failure, and coronary artery diseases. They help reduce blood leakage and allow good cell invasion from the adventitia without affecting the endothelialization rate. Hemodialysis access, coronary artery, endovascular stent, and peripheral vascular are some common product types.

Vascular Grafts Market Trends:

The increasing incidences of chronic heart diseases and the growing demand for minimally invasive (MI) procedures are creating a positive outlook for the market. Vascular grafts are widely used in bypass surgeries to diagnose and treat angina pectoris, heart attack, heart artery blockages, and other cardiovascular diseases (CVDs). The widespread product adoption can also be attributed to the rising prevalence of high blood pressure and cholesterol levels due to sedentary lifestyles and

the steadily growing geriatric population. Apart from this, the development of three-dimensional (3D) printed polymeric vascular grafts that are biodegradable, mechanically compatible with vascular tissues, and support neo-tissue formation and growth are providing an impetus to the market growth. Furthermore, the extensive utilization of prosthetic grafts, such as electrospun PU vascular grafts for complex vascular trauma that reduce the risk of neointimal formation, is positively influencing the market growth. Other factors, including the significant growth in the healthcare industry, extensive research and development (R&D) activities, and rapid technological advancements in next-generation tissue-engineered vascular grafts, are supporting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global vascular grafts market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, raw material, application and end user.

Breakup by Product:

Endovascular Stent Grafts

Hemodialysis Access Grafts

Coronary Artery By-Pass Grafts

Vascular Grafts for Aorta Disease

Peripheral Vascular Grafts

Breakup by Raw Material:

Polytetrafluoroethylene (PTFE)

Polyester

Polyurethane

Biosynthetic

Breakup by Application:

Cardiac Aneurysm

Kidney Failure

Vascular Occlusion

Coronary Artery Disease

Breakup by End User:

Hospitals

Ambulatory Surgical Centers (ASCs)

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Abbott Laboratories, B. Braun SE (B. Braun Holding GmbH & Co. KG), Becton, Dickinson and Company, Cook Group Incorporated, Cordis, CryoLife Inc., Getinge AB, Heat Medical Europe BV, LeMaitre Vascular, Medtronic plc, Terumo Corporation and W. L. Gore & Associates Inc.

Key Questions Answered in This Report:

How has the global vascular grafts market performed so far and how will it perform in

the coming years?

What has been the impact of COVID-19 on the global vascular grafts market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the raw material?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global vascular grafts market and who are the key players?

What is the degree of competition in the industry?

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