+44 20 8123 2220
info@marketpublishers.com

Global Endothelial Dysfunction Market: Analysis By Test Type (Invasive Tests and Non-Invasive Tests), By Cause (Hypertension, Diabetes, Hypercholestrolaemia, Behcet's Disease, Obesity, and Others), By End-User (Hospitals, Diagnostics Centers, Clinics, and Others), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029

https://marketpublishers.com/r/G5ADE34D0EB6EN.html
Date: June 2024
Pages: 163
Price: US$ 2,350.00 (Single User License)
ID: G5ADE34D0EB6EN

Abstracts

The global endothelial dysfunction market was valued at US$2.14 billion in 2023. The market value is expected to reach US$2.79 billion by 2029. Endothelial dysfunction is a pathological state of the endothelium, the thin layer of cells lining the blood vessels, which plays a crucial role in maintaining vascular health.

The global endothelial dysfunction market is poised for robust growth, driven by the rising prevalence of cardiovascular diseases, advancements in diagnostic and therapeutic technologies, increased awareness and understanding of endothelial health, and supportive government policies. These factors collectively create a favorable environment for the expansion of this market, promising improved healthcare outcomes for patients affected by endothelial dysfunction. Moreover, with the aging global population and lifestyle changes, such as unhealthy diets and sedentary behaviors, the prevalence of conditions like hypertension, atherosclerosis, and diabetes has surged. These conditions directly contribute to endothelial dysfunction, thereby escalating the demand for diagnostic and therapeutic interventions in this market. The market is expected to grow at a CAGR of approx. 5% during the forecasted period of 2024-2029.

+44 20 8123 2220
info@marketpublishers.com

Market Segmentation Analysis:

By Test Type: The report provides the bifurcation of the market into two segments based on the test type: Invasive Test and Non-Invasive Test. The invasive test type held the highest share of the market, whereas the non-invasive test type is expected to be the fastest-growing segment in the forecasted period. The invasive methods provide highly accurate and detailed information about the endothelial function and are particularly useful in research settings and in patients with complex cardiovascular conditions. The growth in the invasive tests segment is driven by advancements in catheter technology, improved safety profiles of these procedures, and their high diagnostic accuracy. On the other hand, the growth in the non-invasive tests segment is driven by the increasing awareness of cardiovascular health, the convenience and safety of these tests, and technological advancements in imaging and biomarker analysis. Non-invasive tests are particularly appealing for routine screenings, large-scale epidemiological studies, and longitudinal monitoring of endothelial function in clinical practice.

By Type: The report further assess the non-invasive test based on the following types: Flow Mediated Dilatory, Peripheral Arterial Tonometry, Venous Occlusion Plethysmography, Circulating Markers, and Others. Flow mediated dilatory test held the highest share of the non-invasive endothelial dysfunction market and is expected to be the fastest growing segment. Flow mediated dilatory (FMD) is highly regarded for its ability to provide direct insight into endothelial function and is extensively used in both clinical settings and research studies. The growth in this segment is driven by advancements in ultrasound technology, which have improved the accuracy and reproducibility of FMD measurements.

By Cause: The report further provides the segmentation based on the following causes: Hypertension, Hypercholesterolemia, Obesity, Diabetes, Behcet’s Disease, and Others. The hypertension segment held the highest share of the market and is expected to be the fastest-growing segment in the forecasted period. The increasing incidence of hypertension, driven by factors such as aging population, sedentary lifestyles, and poor dietary habits, is escalating the demand for diagnostic and therapeutic solutions for endothelial dysfunction. Effective management of hypertension involves monitoring and improving endothelial function, thereby driving the market for related diagnostics and treatments. Furthermore, public health initiatives and guidelines emphasizing the importance of controlling blood pressure to prevent cardiovascular complications are raising awareness and promoting early diagnosis and treatment of endothelial dysfunction, thus fueling market growth.

By End-User: The report provides the glimpse of the endothelial dysfunction market based on the following end-user: Hospital, Diagnostic Center, Clinic, and Others. Hospitals held the highest share of the market and is expected to be the fastest-growing segment in the forecasted period. Hospitals serve as primary care centers for patients with cardiovascular and chronic diseases, making them pivotal in the diagnosis and management of endothelial dysfunction. The advanced medical infrastructure and availability of specialized equipment in hospitals enable comprehensive diagnostic evaluations and treatment plans for patients. Additionally, hospitals are usually the first point of contact for emergency cases, where conditions like acute coronary syndromes or strokes require immediate assessment of endothelial health.

By Region: The report provides insight into the endothelial dysfunction market based on the regions: North America, Europe, Asia Pacific, and Rest of the World. North America held the major share of the market. In the US, the growth of the endothelial dysfunction market is particularly pronounced. The high incidence of lifestyle-related diseases such as hypertension, obesity, and diabetes, which are major risk factors for endothelial dysfunction, is a primary contributor. The Centers for Disease Control and Prevention (CDC) report that nearly half of the adult population in the US has hypertension, a condition closely linked to endothelial dysfunction. The advanced healthcare system in the US, characterized by state-of-the-art medical facilities and widespread access to healthcare services, plays a crucial role in the market's expansion.

Germany’s advanced healthcare system, characterized by cutting-edge medical technology and comprehensive healthcare services, supports the widespread use of diagnostic and therapeutic solutions for endothelial dysfunction. The country has a strong tradition of medical research and innovation, supported by institutions like the Max Planck Society and the Fraunhofer Society. These institutions conduct extensive research on cardiovascular health and endothelial dysfunction, leading to the development of new treatments and diagnostic tools.

The Chinese government's support for research and innovation, exemplified by initiatives like the Healthy China 2030 plan, is fostering advancements in medical technology and treatments. Additionally, the aging population in China, with a growing number of elderly individuals, is contributing to the increased prevalence of endothelial dysfunction and related conditions. The combination of these factors, including rising disease prevalence, improved healthcare infrastructure, supportive government policies, and a strong focus on research and innovation, is driving the growth of the endothelial dysfunction market in China.

+44 20 8123 2220
info@marketpublishers.com

Market Dynamics:

Growth Drivers: The global endothelial dysfunction market has been growing over the past few years, due to factors such as rising incidence of obesity and diabetes, growing geriatric population, surge in healthcare expenditure, rising spending on pharmaceutical R&D, increasing prevalence of cardiovascular diseases, favorable government initiatives, and many other factors. The increasing prevalence of cardiovascular diseases (CVD) is a significant growth driver for the endothelial dysfunction market. Endothelial dysfunction, characterized by impaired endothelium-dependent vasodilation, is a key pathophysiological mechanism in CVD, contributing to atherosclerosis, hypertension, and heart failure. As more than 184 million people in the US are projected to develop some form of CVD, exceeding 61% of the population, the demand for diagnostic and therapeutic interventions targeting endothelial dysfunction is expected to rise substantially. According to the American Heart Association, CVD-related costs will triple to US$1.8 trillion by 2050, further emphasizing the economic burden and the need for effective management strategies.

Challenges: However, the market growth would be negatively impacted by various challenges such as limited diagnostic techniques, high cost, etc. The techniques for screening endothelial dysfunction, while pivotal in early diagnosis and intervention, present significant challenges that impact the endothelial dysfunction market. Key screening methods, such as flow-mediated dilation (FMD), peripheral arterial tonometry (PAT), and biomarkers assays, often suffer from limitations related to accuracy, reproducibility, and standardization. Flow-mediated dilation, considered a gold standard, requires high operator skill and is susceptible to variability based on patient conditions and procedural nuances. This variability undermines its reliability and hampers widespread clinical adoption.

Trends: The market is projected to grow at a fast pace during the forecast period, due to various latest trends such as integration artificial intelligence and big data analytics in healthcare, personalized medicine, rising usage of novel biomarkers and therapeutic approaches, rising use of noninvasive methods to assess endothelial dysfunction, emergence of regenerative medicine and gene therapy, rise in telemedicine and remote monitoring, focus on lifestyle interventions, etc. The rising usage of novel biomarkers and therapeutic strategies represents a significant trend in the endothelial dysfunction market. As research elucidates the pathophysiological mechanisms underlying endothelial dysfunction and atherosclerosis, novel biomarkers are being identified to improve risk stratification, early disease detection, and therapeutic monitoring. These biomarkers offer valuable insights into the molecular basis of atherosclerosis and serve as potential targets for preventive and therapeutic interventions.

Impact Analysis of COVID-19 and Way Forward:

In 2020, the initial impact of COVID-19 was marked by widespread disruptions in healthcare systems worldwide. Elective procedures were postponed, and non-urgent medical consultations were deferred, leading to a temporary decline in routine diagnosis and treatment of endothelial dysfunction. However, the subsequent recognition of the virus's impact on vascular health catalyzed growth and innovation in the market by 2021. The post-COVID-19 era has seen a sustained and enhanced focus on endothelial dysfunction, driven by advancements in research, diagnostics, and digital health solutions.

Competitive Landscape:

The global endothelial dysfunction industry is competitive landscape characterized by a mix of established players, emerging startups, and technological innovations. The key players in the global endothelial dysfunction market are:

ZOLL Medical Corporation (Itamar Medical)
Perimed AB
SMART Medical Limited
Everist Health Inc.
Endothelix, Inc.

Various companies are focusing on organic growth strategies such as launches, approvals, and other enhancements. Inorganic growth strategies witnessed in the market were mergers & acquisitions, partnership, expansion, and collaborations. These activities have paved way for expansion of business and customer base of market players. For instance, in April 2023, Perimed had signed an agreement with Lovell Government Services. Lovell's customers are Federal, State, and Local Governments such as the Department of Veteran Affairs (VA), Defense Logistics Agency, and Department of Defense in the US. With this agreement, Perimed gains an additional sales channel as Lovell would notify the company of any government contract opportunities within its field of business and bid on Perimed's behalf. Furthermore, in April 2021, Berkeley Lab had developed flow-mediated dilation device to monitor both endothelial function and endothelium-independent vasodilation.

+44 20 8123 2220
info@marketpublishers.com

Contents

12. LIST OF FIGURES

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Global Endothelial Dysfunction Market: Analysis By Test Type (Invasive Tests and Non-Invasive Tests), By Cause (Hypertension, Diabetes, Hypercholestrolaemia, Behcet's Disease, Obesity, and Others), By End-User (Hospitals, Diagnostics Centers, Clinics, and Others), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029

Product link: https://marketpublishers.com/r/G5ADE34D0EB6EN.html

Price: US$ 2,350.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G5ADE34D0EB6EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**All fields are required

Custumer signature _______________________________________

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

+44 20 8123 2220
info@marketpublishers.com

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970