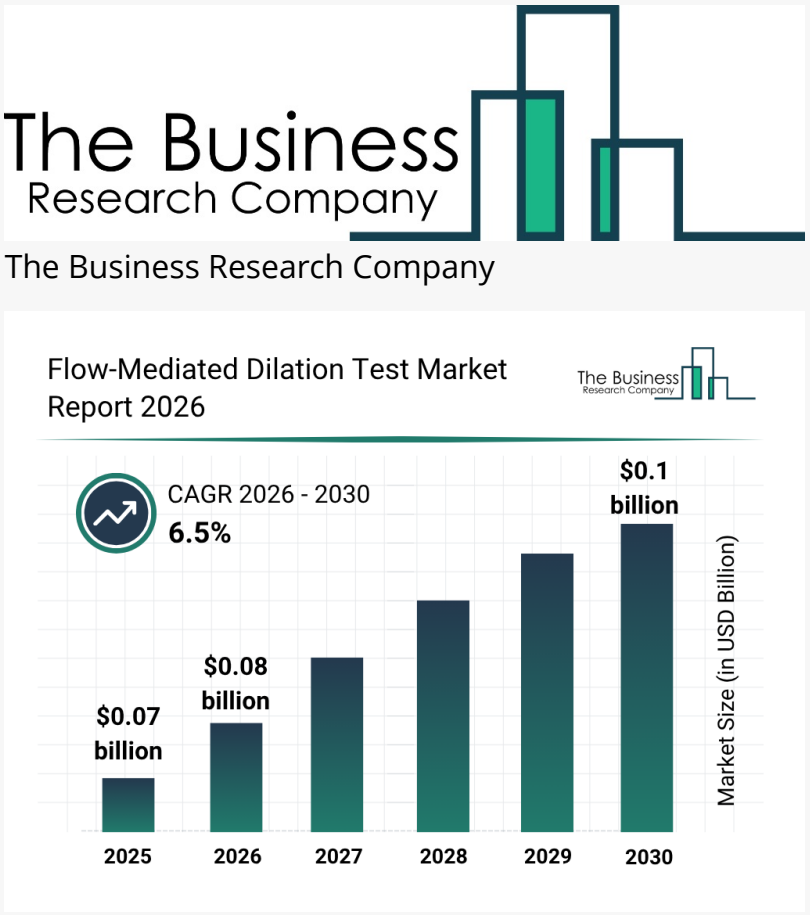
Flow-Mediated Dilation Test Market Set For Rapid Expansion With 6.5% CAGR Through 2030

The Business Research Company's Flow-Mediated Dilation Test Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

The Business Research Company



LONDON, GREATER LONDON, UNITED KINGDOM, September 17, 2026 /EINPresswire.com/ -- The flow-mediated dilation test is gaining considerable attention as a crucial tool for cardiovascular health assessment. With cardiovascular diseases on the rise globally, this diagnostic method is becoming increasingly important for early detection and prevention. Let's explore the current market size, key factors driving growth, major trends, and regional developments shaping the future of this specialized medical test.

Flow-Mediated Dilation Test Market Size and Growth Outlook

The flow-mediated dilation test market has experienced strong growth in recent years. It is projected to increase from $0.07 billion in 2025 to $0.08 billion in 2026, reflecting a compound annual growth rate (CAGR) of 6.2%. This expansion during the historic period has been fueled by a rising prevalence of cardiovascular diseases and atherosclerosis, heightened public awareness about early cardiovascular risk assessments, growing demand for non-invasive diagnostic methods, and increased adoption of vascular health monitoring in clinical research. The use of ultrasound-based endothelial function testing has also contributed significantly to this growth.

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Looking ahead, the market is expected to continue its upward trajectory, reaching $0.1 billion by 2030, with a CAGR of 6.5%. Factors supporting this future growth include the increasing use of AI-driven vessel measurement technologies, a stronger demand for personalized cardiovascular risk predictions, and the integration of advanced imaging software with diagnostic systems. Preventive healthcare screening programs are expanding, and automated endothelial function assessment tools are gaining traction in clinical settings. Leading trends also feature the widespread adoption of automated flow-mediated dilation analysis for quicker assessments and enhanced imaging technologies that improve vascular measurement accuracy.

Understanding the Flow-Mediated Dilation Test Procedure
The flow-mediated dilation test is a non-invasive ultrasound procedure designed to evaluate vascular endothelial function. It measures the percentage change in the brachial artery diameter following a short period of ischemia caused by a blood pressure cuff. The test gauges the endothelium's ability to release nitric oxide in response to shear stress, serving as an early marker for cardiovascular diseases and atherosclerosis. This makes it a valuable tool for identifying vascular health issues before more severe structural damage occurs.

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Key Drivers Boosting Growth in the Flow-Mediated Dilation Test Market
One of the primary drivers for the flow-mediated dilation test market is the increasing prevalence of cardiovascular diseases. These include conditions like coronary artery disease, stroke, heart failure, and peripheral arterial disease. The rise in such diseases is linked to lifestyle-related risk factors including obesity, diabetes, hypertension, physical inactivity, and poor diet. This test plays a critical role in early detection by assessing endothelial dysfunction, enabling healthcare providers to intervene before significant vascular damage happens. For instance, in October 2024, the Centers for Disease Control and Prevention (CDC) reported that cardiovascular disease was responsible for 919,032 deaths in 2023, accounting for roughly one in every three deaths in the US. This widespread prevalence continues to drive demand for flow-mediated dilation testing.

Rising Diabetes and Obesity Rates Fueling Market Expansion
Another important factor propelling the growth of the flow-mediated dilation test market is the increasing incidence of diabetes and obesity. Diabetes, characterized by persistent high blood sugar levels, and obesity, defined by excessive fat accumulation, both heighten the risk of cardiovascular disease, hypertension, and other serious health issues. Sedentary lifestyles have contributed to the surge in these metabolic conditions. The test helps clinicians by offering early

insights into endothelial dysfunction, which is vital for managing cardiovascular risk in these patients. For example, the UK's National Diabetes Audit (NDA) 2024–25 reported that 43.0% of people with type 1 diabetes in England completed all eight recommended care processes by March 2025, highlighting the growing focus on comprehensive disease management.

The Impact of Comorbidities on Market Growth
The increasing frequency of comorbidities—where individuals suffer from two or more chronic diseases simultaneously—is also driving market growth. Typical comorbid conditions include diabetes, hypertension, obesity, and chronic kidney disease. Factors such as aging populations, sedentary habits, and rising chronic disease rates have contributed to this trend. Flow-mediated dilation testing supports the healthcare management of patients with multiple conditions by providing early detection of endothelial dysfunction and helping monitor vascular health before major cardiovascular events occur. Research from the International Journal of Population Data Science (IJPDS) in August 2025 showed that individuals in the most deprived populations had a higher average number of comorbidities compared to those in less deprived groups (1.84 versus 1.49). Additionally, 28.6% of people with multiple sclerosis living in the most deprived areas had more than three comorbidities, compared with 20.6% in the least deprived populations. These insights emphasize the growing need for effective diagnostic tools like the flow-mediated dilation test.

Regional Market Insights and Forecasted Growth
In 2025, North America held the largest share of the flow-mediated dilation test market. However, the Asia-Pacific region is expected to witness the fastest growth in the forecast period. The market analysis spans multiple key regions including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global market trends and opportunities.

Our latest 2026 market reports provide expanded strategic and visual intelligence with market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based forecasting dashboards, market hotspots infographics, key technologies and future trend analysis, together with updated graphics and tables.

Speak With Our Expert:
Saumya Sahay
Americas +1 310-496-7795
Asia +44 7882 955267 & +91 8897263534
Europe +44 7882 955267
Email: marketing@tbrc.info
The Business Research Company - www.thebusinessresearchcompany.com

Follow Us On:
• LinkedIn: https://in.linkedin.com/company/the-business-research-company

Oliver Guirdham
The Business Research Company
+44 7882 955267
info@tbrc.info
Visit us on social media:
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