

Drug-eluting Balloon Catheters Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

<https://marketpublishers.com/r/DF7D5D33C905EN.html>

Date: November 2024

Pages: 170

Price: US\$ 4,850.00 (Single User License)

ID: DF7D5D33C905EN

Abstracts

The Global Drug-Eluting Balloon Catheters Market was valued at USD 637.8 million in 2024 and is projected to grow at a CAGR of 9.9% from 2025 to 2034. This expansion is primarily driven by the rising prevalence of peripheral and cardiovascular diseases, increasing preference for minimally invasive treatments, and the growing aging population worldwide.

Cardiovascular diseases (CVDs) such as coronary artery disease, strokes, and peripheral artery disease (PAD) have become a global health concern. Contributing factors include unhealthy lifestyles, aging populations, and the widespread occurrence of conditions like hypertension and diabetes. These factors have led to a surge in demand for minimally invasive procedures, with DEB catheters emerging as a preferred solution for managing arterial blockages and enhancing blood flow without the need for permanent implants.

DEB catheters, also known as drug-coated balloons, deliver antiproliferative drugs such as paclitaxel or sirolimus directly to the arterial walls during balloon expansion. This controlled drug release helps treat hyperplasia and improve outcomes in both peripheral and coronary vascular diseases. The market is segmented by product into coronary artery disease and peripheral vascular disease DEB catheters. In 2024, the peripheral vascular disease segment led the market, generating USD 353 million in revenue.

Peripheral vascular disease DEB catheters are particularly effective for complex lesions where stents may not be suitable. By reducing smooth muscle cell proliferation and preventing restenosis, these catheters maintain optimal blood flow and improve patient outcomes. The rising preference for minimally invasive interventions due to shorter

recovery times and fewer complications has significantly contributed to the popularity of DEB catheters for peripheral vascular applications.

Material-wise, the market is categorized into polyurethane, nylon, and other materials. Polyurethane-based DEB catheters generated USD 225.4 million in revenue in 2024 and are expected to grow at a CAGR of 10.4% through 2034. Known for its flexibility, biocompatibility, and durability, polyurethane is ideal for navigating complex vascular structures, ensuring patient comfort, and reducing the risk of injury during procedures.

Hospitals and clinics accounted for the largest share of the market in 2024, driven by increasing admissions for cardiovascular and peripheral artery disorders. The segment is expected to reach USD 938.3 million by 2034, supported by the growing demand for advanced surgical care and minimally invasive interventions.

In terms of regional performance, North America dominated the market with USD 272.2 million in revenue in 2024. This growth is attributed to the region's advanced healthcare infrastructure, high prevalence of CVDs, and widespread adoption of DEB technology in interventional cardiology and vascular care.

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