

North America Embolization Devices Market Report (2021-2031) by Scope, Segmentation, Dynamics, and Competitive Analysis

<https://marketpublishers.com/r/N92838918481EN.html>

Date: September 2025

Pages: 181

Price: US\$ 3,450.00 (Single User License)

ID: N92838918481EN

Abstracts

The North America embolization devices market is projected to grow significantly, reaching approximately US\$ 2,404.42 million by 2031, up from US\$ 1,242.60 million in 2024, with an estimated compound annual growth rate (CAGR) of 10.0% from 2025 to 2031.

Executive Summary and Market Analysis

The growth of the embolization devices market in North America is fueled by the region's advanced healthcare systems, rising incidence of vascular diseases, and an increasing preference for minimally invasive procedures. Technological innovations have greatly improved the precision and safety of embolization techniques, making them the preferred treatment for conditions like aneurysms, arteriovenous malformations, and tumors. High levels of patient awareness regarding medical conditions and treatment options, robust healthcare reimbursement frameworks, and the presence of leading medical device manufacturers contribute to the market's maturity in North America. Public health initiatives also play a vital role in promoting embolization procedures. Ongoing research and clinical trials are expanding the applications of embolization technologies, particularly focusing on biodegradable and drug-eluting embolic agents. While the United States leads in adoption and innovation, Canada and Mexico are gradually enhancing their market presence through supportive policies and infrastructure improvements. However, disparities in healthcare access between urban and rural areas pose challenges. The region continues to attract significant investments and collaborations among hospitals, research institutions, and device manufacturers, ensuring ongoing development and innovation in embolization technologies.

Market Segmentation Analysis

The North America embolization devices market can be segmented by type, application, and end user.

- By Type: The market includes embolization coils, plugs, beads, glues, and others. In 2024, embolization coils held the largest market share, further divided into central and peripheral applications.
- By Application: The market is categorized into neurology, peripheral vascular disease, oncology, urology, and others, with neurology being the leading segment in 2024.
- By End User: The market is segmented into hospitals, ambulatory centers, and others, with hospitals dominating the market share in 2024.

Market Outlook

Innovations such as enhanced catheter designs, new embolic agents, and detachable coils have improved the efficacy and safety of embolization procedures. For instance, flow-diverting devices have transformed the treatment of complex intracranial aneurysms by redirecting blood flow away from the aneurysm sac, promoting thrombosis within the aneurysm. Clinical studies are crucial for advancing embolization techniques, leading to broader indications and better patient outcomes. The IMPASS embolic coil device, developed by Fluidx Medical Technology, has shown promise in treating chronic subdural hematomas by embolizing the middle meningeal artery, with in-vivo studies demonstrating its effectiveness. The US FDA granted Investigational Device Exemption (IDE) approval for Fluidx's GPX embolic device in May 2024, with positive results published in the *Journal of Vascular and Interventional Radiology*, indicating high technical success and favorable physician feedback.

The Caterpillar Arterial Embolization System, assessed in a first-in-human study, demonstrated effective occlusion in peripheral arteries with minimal risk of serious adverse events. As the market evolves, the collaboration between clinical research and device innovation will be essential in meeting the increasing demand for effective embolization therapies. Integrating clinical studies into the development of embolization devices is emerging as a significant trend, leading to expanded treatment options and improved patient outcomes.

Country Insights

The North America embolization devices market includes the US, Canada, and Mexico,

with the US holding the largest market share in 2024. The US market is characterized by high innovation levels, early adoption of new technologies, and a strong focus on minimally invasive treatments. The trend towards minimally invasive surgeries (MIS) has been increasing, with healthcare providers favoring embolization procedures for conditions like hepatocellular carcinoma (HCC), uterine fibroids, and brain aneurysms due to their lower risk and quicker recovery times compared to traditional surgeries. The US market benefits from substantial investments in medical technology and robust clinical research supporting the efficacy of embolization therapies.

Company Profiles

Key players in the embolization devices market include Medtronic, Cook Medical, Stryker, Boston Scientific, Terumo, Johnson & Johnson, Abbott Laboratories, and others. These companies are pursuing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative products.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the North America embolization devices market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in North America embolization devices market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth North America market trends and outlook coupled with the factors driving the embolization devices market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin security interest with respect to client products, segmentation, pricing, and distribution.

Companies

Medtronic Plc

Cook Medical Holdings LLC

Stryker Corp

Boston Scientific Corp

Terumo Corp

Johnson & Johnson

Abbott Laboratories

NeuroSafe Medical Co. Ltd

Wallaby Medical

Sirtex Medical Ltd

GEM srl

Penumbra Inc.

Balt

Lepu Medical Technology Beijing Co Ltd

INVAMED

Meril Life Sciences Pvt Ltd

Merit Medical Systems Inc

Lifetech Scientific Corp

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