

# **Neurovascular Embolization Market Forecasts to 2034 – Global Analysis By Product (Flow Diversion Devices, Aneurysm Clips, Embolic Coils, Liquid Embolic Agents/Systems and Other Products), Procedure (Arteriovenous Malformation (AVM) Embolization, Aneurysm Coiling and Embolization and Other Procedures), End User and By Geography**

<https://marketpublishers.com/r/ND637A62F7A6EN.html>

Date: May 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: ND637A62F7A6EN

## **Abstracts**

According to Statistics MRC, the Global Neurovascular Embolization Market is accounted for \$1.9 billion in 2026 and is expected to reach \$3.6 billion by 2034 growing at a CAGR of 8.4% during the forecast period. Neurovascular embolization is a medical procedure used to treat various conditions affecting the blood vessels of the brain and nervous system. It involves the intentional introduction of embolic agents, such as particles, coils, or liquid substances, into the blood vessels to block or reduce blood flow to targeted areas employed to treat abnormal vascular structures. Furthermore, by occluding or reducing blood flow to the affected vessels, neurovascular embolization helps to alleviate symptoms, prevent further damage, and promote overall vascular stability.

According to the Brain Aneurysms Foundation, in the U.S., roughly 6.7 million people have unruptured brain aneurysms, leading to an annual rupture rate of 8-10 cases per 100,000.

### **Market Dynamics:**

#### **Driver:**

## Expansion of Healthcare Infrastructure

The expansion of healthcare infrastructure facilitates collaborative efforts between healthcare institutions, industry stakeholders, and regulatory bodies, fostering research and development initiatives. This expansion not only addresses the growing burden of neurovascular disorders but also enables timely diagnosis and intervention. Moreover, a collaborative environment supports the continuous improvement of embolic materials, delivery systems, and procedural techniques, contributing to the overall advancement of the neurovascular embolization field.

### **Restraint:**

#### Limited awareness and education

The limited awareness can lead to underutilization of neurovascular embolization, with patients being directed towards alternative treatments. Lack of public education campaigns and information dissemination about the procedure can result in delayed diagnosis and treatment. Furthermore, the complexity of neurovascular embolization and the specialized skills required to perform the procedure can be a barrier to its widespread adoption, which is impeding this market expansion.

### **Opportunity:**

#### Technological advancements

The advancements in technology and innovations in embolic materials, delivery systems, and imaging technologies have significantly improved the precision, safety, and efficacy of neurovascular embolization procedures. Advanced delivery systems, including microcatheters and navigation tools, enable neurointerventionalists to reach intricate vascular structures. Furthermore, the integration of artificial intelligence (AI) and machine learning further refines procedural planning and execution, optimizing outcomes and reducing procedural times, which drive this market growth.

### **Threat:**

#### Economic downturns

Economic downturns impact patients' ability to afford neurovascular embolization procedures and often face constraints and cost-cutting measures. This can lead to a

reduction in funding for medical procedures, and individuals may face challenges in securing adequate health insurance coverage or may have limited resources. Additionally, economic downturns can disrupt the overall healthcare ecosystem, including physician practices and referral patterns. Physicians may experience reduced patient volumes or changes, which are hampering this market.

### Covid-19 Impact

The COVID-19 pandemic has had several negative impacts on the neurovascular embolization market. The pandemic led to disruptions in healthcare services globally, procedures including certain neurovascular interventions like embolization, which were deferred or cancelled, impacting the overall procedural volume. Logistic challenges also impacted the availability of medical devices, including those used in neurovascular embolization. In addition, the shift in healthcare priorities and the financial strain on healthcare systems also hindered this market size.

The embolic coils segment is expected to be the largest during the forecast period

The embolic coil segment is estimated to hold the largest share due to its focus on the treatment of vascular abnormalities in the brain. This technique involves the deployment of platinum or other biocompatible coils through a catheter directly into the blood vessel. These coils induce clot formation, promoting the natural healing process and preventing the risk of rupture. In addition, it is versatile in treating cerebrovascular conditions, including aneurysms and arteriovenous malformations, coupled with ongoing research and development efforts that are boosting this segment's expansion.

The aneurysm coiling and embolization segment is expected to have the highest CAGR during the forecast period

The aneurysm coiling and embolization segment is anticipated to have highest CAGR during the forecast period. It is a crucial intervention for treating vascular abnormalities in the brain, wherein a catheter is navigated through blood vessels to the site of the aneurysm. Platinum coils or other embolic devices are then deployed into the aneurysm, promoting blood clot formation and preventing rupture. Furthermore, aneurysm coiling and embolization procedures offer reduced invasiveness, shorter recovery times, and a lower risk of complications, and rising awareness among both healthcare providers and patients contributes to the sustained growth of this market.

### Region with largest share:

Asia Pacific commanded the largest market share during the extrapolated period, owing to increased demand and advancements in healthcare infrastructure. Increasing healthcare awareness, improved diagnostic capabilities, and expanding access to healthcare services have heightened the demand for neurovascular embolization procedures. Furthermore, collaborative efforts between healthcare institutions and industry players have resulted in the development and introduction of innovative embolic materials and devices, which are driving this region's growth.

### **Region with highest CAGR:**

Europe is expected to witness highest CAGR over the projection period, owing to a growing awareness of advanced neurointerventional procedures, including embolization. Key players such as Medtronic plc, Penumbra, Inc., MicroVention, and Acandis GmbH continue to evolve technological advancements in healthcare systems, contributing to improved patient outcomes. Furthermore, increasing incidences of cerebrovascular diseases, such as aneurysms and arteriovenous, are propelling this region's expansion.

### **Key players in the market**

Some of the key players in the Neurovascular Embolization Market include Cerenovus, Penumbra Inc, Medtronic, Phenox GmbH, Stryker, Balt SAS, Shape Memory Medical Inc, Integra LifeSciences, B. Braun Melsungen AG, MicroVention Inc, Peter Lazic GmbH and Spartan Micro.

### **Key Developments:**

In August 2023, Medtronic announced the outcome of the U.S. Food & Drug Administration (FDA) Circulatory System Devices Panel (CSDP) meeting to review data presented in support of the Medtronic Symplicity Spyral™ Renal Denervation (RDN) System.

In February 2022, CERENOVUS, an emerging leader in neurovascular care and part of Johnson & Johnson Medical Devices Companies,\* announced the launch of EMBOGUARD™, a next generation balloon guide catheter to be used in endovascular procedures, including those for patients with acute ischemic stroke.

In June 2021, Johnson & Johnson Medical Devices Companies\* announced the first

patient was enrolled in the CERENOVUS-sponsored MEMBRANE study evaluating TruFill® n-BCA Liquid Embolic System in the embolization of middle meningeal artery (MMA) for treatment of chronic subdural hematoma (cSDH) as adjunct to surgical evacuation or as a stand-alone treatment.

In January 2020, MicroVention, Inc., a U.S. based subsidiary of Terumo and a global neurovascular company announced the FDA Premarket Approval (PMA) for the FRED® (Flow Re-Direction Endoluminal Device) device for the treatment of brain aneurysms.

#### Products Covered:

- Flow Diversion Devices

- Aneurysm Clips

- Embolic Coils

- Liquid Embolic Agents/Systems

- Other Products

#### Procedures Covered:

- Arteriovenous Malformation (AVM) Embolization

- Aneurysm Coiling and Embolization

- Other Procedures

#### End Users Covered:

- Specialty Clinics

- Hospitals

- Other End Users

## Regions Covered:

### North America

US

Canada

Mexico

### Europe

Germany

UK

Italy

France

Spain

Rest of Europe

### Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

## Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

### **What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

### **Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

## **5 GLOBAL NEUROVASCULAR EMBOLIZATION MARKET, BY PRODUCT**

- 5.1 Introduction
- 5.2 Flow Diversion Devices
- 5.3 Aneurysm Clips
- 5.4 Embolic Coils
- 5.5 Liquid Embolic Agents/Systems
- 5.6 Other Products

## **6 GLOBAL NEUROVASCULAR EMBOLIZATION MARKET, BY PROCEDURE**

- 6.1 Introduction
- 6.2 Arteriovenous Malformation (AVM) Embolization
- 6.3 Aneurysm Coiling and Embolization
- 6.4 Other Procedures

## **7 GLOBAL NEUROVASCULAR EMBOLIZATION MARKET, BY END USER**

- 7.1 Introduction
- 7.2 Specialty Clinics
- 7.3 Hospitals
- 7.4 Other End Users

## **8 GLOBAL NEUROVASCULAR EMBOLIZATION MARKET, BY GEOGRAPHY**

- 8.1 Introduction
- 8.2 North America
  - 8.2.1 US
  - 8.2.2 Canada
  - 8.2.3 Mexico
- 8.3 Europe
  - 8.3.1 Germany
  - 8.3.2 UK
  - 8.3.3 Italy
  - 8.3.4 France
  - 8.3.5 Spain
  - 8.3.6 Rest of Europe
- 8.4 Asia Pacific
  - 8.4.1 Japan

- 8.4.2 China
- 8.4.3 India
- 8.4.4 Australia
- 8.4.5 New Zealand
- 8.4.6 South Korea
- 8.4.7 Rest of Asia Pacific
- 8.5 South America
  - 8.5.1 Argentina
  - 8.5.2 Brazil
  - 8.5.3 Chile
  - 8.5.4 Rest of South America
- 8.6 Middle East & Africa
  - 8.6.1 Saudi Arabia
  - 8.6.2 UAE
  - 8.6.3 Qatar
  - 8.6.4 South Africa
  - 8.6.5 Rest of Middle East & Africa

## **9 KEY DEVELOPMENTS**

- 9.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 9.2 Acquisitions & Mergers
- 9.3 New Product Launch
- 9.4 Expansions
- 9.5 Other Key Strategies

## **10 COMPANY PROFILING**

- 10.1 Cerenovus
- 10.2 Penumbra Inc
- 10.3 Medtronic
- 10.4 Phenox GmbH
- 10.5 Stryker
- 10.6 Balt SAS
- 10.7 Shape Memory Medical Inc
- 10.8 Integra LifeSciences
- 10.9 B. Braun Melsungen AG
- 10.10 MicroVention Inc
- 10.11 Peter Lazic GmbH

## 10.12 Spartan Micro

## List Of Tables

### LIST OF TABLES

Table 1 Global Neurovascular Embolization Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Neurovascular Embolization Market Outlook, By Product (2023-2034) (\$MN)

Table 3 Global Neurovascular Embolization Market Outlook, By Flow Diversion Devices (2023-2034) (\$MN)

Table 4 Global Neurovascular Embolization Market Outlook, By Aneurysm Clips (2023-2034) (\$MN)

Table 5 Global Neurovascular Embolization Market Outlook, By Embolic Coils (2023-2034) (\$MN)

Table 6 Global Neurovascular Embolization Market Outlook, By Liquid Embolic Agents/Systems (2023-2034) (\$MN)

Table 7 Global Neurovascular Embolization Market Outlook, By Other Products (2023-2034) (\$MN)

Table 8 Global Neurovascular Embolization Market Outlook, By Procedure (2023-2034) (\$MN)

Table 9 Global Neurovascular Embolization Market Outlook, By Arteriovenous Malformation (AVM) Embolization (2023-2034) (\$MN)

Table 10 Global Neurovascular Embolization Market Outlook, By Aneurysm Coiling and Embolization (2023-2034) (\$MN)

Table 11 Global Neurovascular Embolization Market Outlook, By Other Procedures (2023-2034) (\$MN)

Table 12 Global Neurovascular Embolization Market Outlook, By End User (2023-2034) (\$MN)

Table 13 Global Neurovascular Embolization Market Outlook, By Specialty Clinics (2023-2034) (\$MN)

Table 14 Global Neurovascular Embolization Market Outlook, By Hospitals (2023-2034) (\$MN)

Table 15 Global Neurovascular Embolization Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 16 North America Neurovascular Embolization Market Outlook, By Country (2023-2034) (\$MN)

Table 17 North America Neurovascular Embolization Market Outlook, By Product (2023-2034) (\$MN)

Table 18 North America Neurovascular Embolization Market Outlook, By Flow Diversion

Devices (2023-2034) (\$MN)

Table 19 North America Neurovascular Embolization Market Outlook, By Aneurysm Clips (2023-2034) (\$MN)

Table 20 North America Neurovascular Embolization Market Outlook, By Embolic Coils (2023-2034) (\$MN)

Table 21 North America Neurovascular Embolization Market Outlook, By Liquid Embolic Agents/Systems (2023-2034) (\$MN)

Table 22 North America Neurovascular Embolization Market Outlook, By Other Products (2023-2034) (\$MN)

Table 23 North America Neurovascular Embolization Market Outlook, By Procedure (2023-2034) (\$MN)

Table 24 North America Neurovascular Embolization Market Outlook, By Arteriovenous Malformation (AVM) Embolization (2023-2034) (\$MN)

Table 25 North America Neurovascular Embolization Market Outlook, By Aneurysm Coiling and Embolization (2023-2034) (\$MN)

Table 26 North America Neurovascular Embolization Market Outlook, By Other Procedures (2023-2034) (\$MN)

Table 27 North America Neurovascular Embolization Market Outlook, By End User (2023-2034) (\$MN)

Table 28 North America Neurovascular Embolization Market Outlook, By Specialty Clinics (2023-2034) (\$MN)

Table 29 North America Neurovascular Embolization Market Outlook, By Hospitals (2023-2034) (\$MN)

Table 30 North America Neurovascular Embolization Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 31 Europe Neurovascular Embolization Market Outlook, By Country (2023-2034) (\$MN)

Table 32 Europe Neurovascular Embolization Market Outlook, By Product (2023-2034) (\$MN)

Table 33 Europe Neurovascular Embolization Market Outlook, By Flow Diversion Devices (2023-2034) (\$MN)

Table 34 Europe Neurovascular Embolization Market Outlook, By Aneurysm Clips (2023-2034) (\$MN)

Table 35 Europe Neurovascular Embolization Market Outlook, By Embolic Coils (2023-2034) (\$MN)

Table 36 Europe Neurovascular Embolization Market Outlook, By Liquid Embolic Agents/Systems (2023-2034) (\$MN)

Table 37 Europe Neurovascular Embolization Market Outlook, By Other Products (2023-2034) (\$MN)

- Table 38 Europe Neurovascular Embolization Market Outlook, By Procedure (2023-2034) (\$MN)
- Table 39 Europe Neurovascular Embolization Market Outlook, By Arteriovenous Malformation (AVM) Embolization (2023-2034) (\$MN)
- Table 40 Europe Neurovascular Embolization Market Outlook, By Aneurysm Coiling and Embolization (2023-2034) (\$MN)
- Table 41 Europe Neurovascular Embolization Market Outlook, By Other Procedures (2023-2034) (\$MN)
- Table 42 Europe Neurovascular Embolization Market Outlook, By End User (2023-2034) (\$MN)
- Table 43 Europe Neurovascular Embolization Market Outlook, By Specialty Clinics (2023-2034) (\$MN)
- Table 44 Europe Neurovascular Embolization Market Outlook, By Hospitals (2023-2034) (\$MN)
- Table 45 Europe Neurovascular Embolization Market Outlook, By Other End Users (2023-2034) (\$MN)
- Table 46 Asia Pacific Neurovascular Embolization Market Outlook, By Country (2023-2034) (\$MN)
- Table 47 Asia Pacific Neurovascular Embolization Market Outlook, By Product (2023-2034) (\$MN)
- Table 48 Asia Pacific Neurovascular Embolization Market Outlook, By Flow Diversion Devices (2023-2034) (\$MN)
- Table 49 Asia Pacific Neurovascular Embolization Market Outlook, By Aneurysm Clips (2023-2034) (\$MN)
- Table 50 Asia Pacific Neurovascular Embolization Market Outlook, By Embolic Coils (2023-2034) (\$MN)
- Table 51 Asia Pacific Neurovascular Embolization Market Outlook, By Liquid Embolic Agents/Systems (2023-2034) (\$MN)
- Table 52 Asia Pacific Neurovascular Embolization Market Outlook, By Other Products (2023-2034) (\$MN)
- Table 53 Asia Pacific Neurovascular Embolization Market Outlook, By Procedure (2023-2034) (\$MN)
- Table 54 Asia Pacific Neurovascular Embolization Market Outlook, By Arteriovenous Malformation (AVM) Embolization (2023-2034) (\$MN)
- Table 55 Asia Pacific Neurovascular Embolization Market Outlook, By Aneurysm Coiling and Embolization (2023-2034) (\$MN)
- Table 56 Asia Pacific Neurovascular Embolization Market Outlook, By Other Procedures (2023-2034) (\$MN)
- Table 57 Asia Pacific Neurovascular Embolization Market Outlook, By End User

(2023-2034) (\$MN)

Table 58 Asia Pacific Neurovascular Embolization Market Outlook, By Specialty Clinics (2023-2034) (\$MN)

Table 59 Asia Pacific Neurovascular Embolization Market Outlook, By Hospitals (2023-2034) (\$MN)

Table 60 Asia Pacific Neurovascular Embolization Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 61 South America Neurovascular Embolization Market Outlook, By Country (2023-2034) (\$MN)

Table 62 South America Neurovascular Embolization Market Outlook, By Product (2023-2034) (\$MN)

Table 63 South America Neurovascular Embolization Market Outlook, By Flow Diversion Devices (2023-2034) (\$MN)

Table 64 South America Neurovascular Embolization Market Outlook, By Aneurysm Clips (2023-2034) (\$MN)

Table 65 South America Neurovascular Embolization Market Outlook, By Embolic Coils (2023-2034) (\$MN)

Table 66 South America Neurovascular Embolization Market Outlook, By Liquid Embolic Agents/Systems (2023-2034) (\$MN)

Table 67 South America Neurovascular Embolization Market Outlook, By Other Products (2023-2034) (\$MN)

Table 68 South America Neurovascular Embolization Market Outlook, By Procedure (2023-2034) (\$MN)

Table 69 South America Neurovascular Embolization Market Outlook, By Arteriovenous Malformation (AVM) Embolization (2023-2034) (\$MN)

Table 70 South America Neurovascular Embolization Market Outlook, By Aneurysm Coiling and Embolization (2023-2034) (\$MN)

Table 71 South America Neurovascular Embolization Market Outlook, By Other Procedures (2023-2034) (\$MN)

Table 72 South America Neurovascular Embolization Market Outlook, By End User (2023-2034) (\$MN)

Table 73 South America Neurovascular Embolization Market Outlook, By Specialty Clinics (2023-2034) (\$MN)

Table 74 South America Neurovascular Embolization Market Outlook, By Hospitals (2023-2034) (\$MN)

Table 75 South America Neurovascular Embolization Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 76 Middle East & Africa Neurovascular Embolization Market Outlook, By Country (2023-2034) (\$MN)

Table 77 Middle East & Africa Neurovascular Embolization Market Outlook, By Product (2023-2034) (\$MN)

Table 78 Middle East & Africa Neurovascular Embolization Market Outlook, By Flow Diversion Devices (2023-2034) (\$MN)

Table 79 Middle East & Africa Neurovascular Embolization Market Outlook, By Aneurysm Clips (2023-2034) (\$MN)

Table 80 Middle East & Africa Neurovascular Embolization Market Outlook, By Embolic Coils (2023-2034) (\$MN)

Table 81 Middle East & Africa Neurovascular Embolization Market Outlook, By Liquid Embolic Agents/Systems (2023-2034) (\$MN)

Table 82 Middle East & Africa Neurovascular Embolization Market Outlook, By Other Products (2023-2034) (\$MN)

Table 83 Middle East & Africa Neurovascular Embolization Market Outlook, By Procedure (2023-2034) (\$MN)

Table 84 Middle East & Africa Neurovascular Embolization Market Outlook, By Arteriovenous Malformation (AVM) Embolization (2023-2034) (\$MN)

Table 85 Middle East & Africa Neurovascular Embolization Market Outlook, By Aneurysm Coiling and Embolization (2023-2034) (\$MN)

Table 86 Middle East & Africa Neurovascular Embolization Market Outlook, By Other Procedures (2023-2034) (\$MN)

Table 87 Middle East & Africa Neurovascular Embolization Market Outlook, By End User (2023-2034) (\$MN)

Table 88 Middle East & Africa Neurovascular Embolization Market Outlook, By Specialty Clinics (2023-2034) (\$MN)

Table 89 Middle East & Africa Neurovascular Embolization Market Outlook, By Hospitals (2023-2034) (\$MN)

Table 90 Middle East & Africa Neurovascular Embolization Market Outlook, By Other End Users (2023-2034) (\$MN)

## I would like to order

Product name: Neurovascular Embolization Market Forecasts to 2034 – Global Analysis By Product (Flow Diversion Devices, Aneurysm Clips, Embolic Coils, Liquid Embolic Agents/Systems and Other Products), Procedure (Arteriovenous Malformation (AVM) Embolization, Aneurysm Coiling and Embolization and Other Procedures), End User and By Geography

Product link: <https://marketpublishers.com/r/ND637A62F7A6EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/ND637A62F7A6EN.html>