

MRI Guided Neurosurgical Ablation Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

<https://marketpublishers.com/r/M2327F3DA658EN.html>

Date: March 2025

Pages: 83

Price: US\$ 3,200.00 (Single User License)

ID: M2327F3DA658EN

Abstracts

MRI Guided Neurosurgical Ablation Market Summary

Introduction

MRI Guided Neurosurgical Ablation involves advanced medical procedures that utilize MRI technology to precisely target and ablate neurological tissues, treating conditions such as brain tumors and Parkinson's disease. Available in types like MRI Guided RF Ablation Systems, MRI Guided Laser Ablation Systems, and MRI Guided Focused Ultrasound Systems, these technologies are applied in hospitals, clinics, and ambulatory surgical centers. The market is propelled by the increasing prevalence of neurological disorders, with Globocan reporting 308,000 new brain tumor cases in 2023, and the World Health Organization identifying neurological conditions as the leading cause of ill health and disability globally, affecting over 3 billion people in 2021 per The Lancet Neurology. Aging populations, projected to reach 2.1 billion over 60 by 2050, amplify demand, as do preferences for minimally invasive techniques offering faster recovery. Technological advancements, such as high-resolution MRI and AI navigation, further enhance precision and adoption.

Market Size and Growth Forecast

The global MRI guided neurosurgical ablation market is expected to reach between USD 360 million and USD 510 million in 2025, with a compound annual growth rate (CAGR) of 6.3% to 8.2% through 2030, driven by rising neurological disease burdens and innovation.

Regional Analysis

North America: The United States leads with advanced healthcare systems and high

neurological disorder prevalence, while Canada emphasizes research-driven adoption.

Europe: Germany, France, and the UK dominate, supported by aging demographics and robust medical infrastructure.

Asia Pacific: China and India see rapid growth due to expanding healthcare access, while Japan focuses on precision technologies for elderly care.

Rest of the World: Brazil prioritizes hospital-based advancements, and the Middle East, notably the UAE, invests in cutting-edge medical tools.

Application Analysis

Hospitals: Projected growth of 6.0-8.0%, driven by complex neurosurgeries. Trends focus on integrating high-precision systems.

Clinics: Expected growth of 5.5-7.5%, catering to outpatient treatments. Developments emphasize compact, efficient devices.

Ambulatory Surgical Centers: Growth at 6.5-8.5%, linked to minimally invasive trends. Advances prioritize portability and speed.

Product Type Analysis

MRI Guided RF Ablation Systems: Anticipated growth of 5.8-7.8%, valued for cost-effectiveness. Trends focus on enhanced energy delivery.

MRI Guided Laser Ablation Systems: Expected growth of 6.5-8.5%, key for precision in tumor ablation. Advances highlight AI integration.

MRI Guided Focused Ultrasound Systems: Growth at 6.0-8.0%, used for non-invasive treatments. Developments emphasize ultrasound advancements.

Key Market Players

Leading firms include Medtronic, innovating in neurosurgical tools; Insightec, pioneering focused ultrasound; Monteris, specializing in laser ablation; Elekta, advancing radiation therapies; Boston Scientific Corporation, enhancing ablation catheters; Siemens Healthineers, improving imaging systems; Philips, integrating AI navigation; Proton Medical, focusing on ultrasound solutions; and Abbott Laboratories, expanding neuromodulation. These players drive market evolution through technological breakthroughs.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate, due to high R&D costs and regulatory hurdles, though niche innovators can enter.

Threat of Substitutes: Low to moderate, as traditional surgery lacks precision, though alternative therapies challenge adoption.

Bargaining Power of Buyers: Moderate, with hospitals negotiating on cost and efficacy, balanced by specialized needs.

Bargaining Power of Suppliers: Low, due to multiple imaging and tech suppliers, reducing dependency.

Competitive Rivalry: High, with firms competing on precision, safety, and compatibility in a growing market.

Market Opportunities and Challenges

Opportunities: Rising neurological disorders—308,000 brain tumor cases in 2023 and over 3 billion affected in 2021—fuel demand. An aging population, growing to 2.1 billion by 2050, increases neurosurgical needs. Minimally invasive preferences boost adoption, while innovations like Boston Scientific's 2024 FARAWAVE NAV and ClearPoint Neuro's 2024 SmartFrame OR enhance precision and accessibility. Emerging markets offer growth with healthcare modernization.

Challenges: High equipment costs restrict adoption in low-income regions despite disease prevalence. Regulatory delays for new technologies pose hurdles. Competition from alternative treatments and the need for continuous innovation pressure manufacturers.

Market News

In October 2024, Boston Scientific announced FDA approval for the FARAWAVE NAV Ablation Catheter and FARAVIEW Software, enhancing cardiac mapping for ablation procedures. In June 2024, ClearPoint Neuro launched the SmartFrame OR and ClearPoint Prism 3T Laser Therapy System, showcased at the ASSFN conference, advancing neurosurgical precision.

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