

# **Acute External Ventricular Drain Market, 2028- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Application (Traumatic Brain Injury (TBI), Subarachnoid Hemorrhage, Intracerebral Hemorrhage, Others), By Patient Type (Pediatric, Adult), By Region, By Competition.**

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## **Abstracts**

The Global Acute External Ventricular Drain Market has valued at USD 225.41 million in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 5.44% through 2028. The global healthcare industry has been witnessing a steady rise in the demand for neurosurgical procedures and devices, and one such critical device that plays a pivotal role in the management of patients with intracranial conditions is the Acute External Ventricular Drain (EVD). EVDs are indispensable tools for monitoring and managing cerebrospinal fluid (CSF) levels, intracranial pressure (ICP), and assisting in various neurosurgical procedures. The global Acute External Ventricular Drain market has been experiencing significant growth over the past few years and is expected to continue its upward trajectory. Key factors contributing to this growth include an aging population, increasing incidence of traumatic brain injuries, strokes, and various neurological disorders, as well as advancements in technology and healthcare infrastructure.

The rising prevalence of neurological disorders such as hydrocephalus, traumatic brain injuries (TBI), intracerebral hemorrhages, and brain tumors is driving the demand for EVDs. The global population is aging, and elderly individuals are more susceptible to conditions that require neurosurgical interventions, thus boosting the demand for EVDs. Ongoing research and development in neurosurgery and medical devices have led to

the introduction of more advanced and user-friendly EVDs, which are being adopted by healthcare facilities worldwide. Emerging economies are investing in healthcare infrastructure development, leading to increased access to advanced medical devices, including EVDs. Increasing awareness among patients and healthcare professionals about the importance of early diagnosis and treatment of neurological conditions has driven the demand for EVDs.

With the growing healthcare infrastructure in emerging markets, there are significant opportunities for EVD manufacturers to expand their presence and tap into underserved regions. Investing in research and development to create more advanced and safer EVD technologies can give companies a competitive edge. Collaborating with healthcare institutions and research organizations can help in the development and adoption of EVD technologies. Offering training programs for healthcare professionals in the proper use and maintenance of EVDs can enhance market penetration.

### Key Market Drivers

#### Rising Incidence of Neurological Disorders is Driving the Global Acute External Ventricular Drain Market

The Global Acute External Ventricular Drain (EVD) Market has been experiencing steady growth in recent years, driven by a combination of factors that reflect the increasing prevalence of neurological disorders, advancements in medical technology, and a growing aging population. EVD is a crucial medical device used in the management of conditions like hydrocephalus, traumatic brain injuries, and intracranial hemorrhage. One of the primary drivers of the Global Acute EVD Market is the increasing incidence of neurological disorders worldwide. Neurological conditions, such as hydrocephalus, which involves the accumulation of cerebrospinal fluid in the brain, often require surgical intervention, including the use of EVDs. Additionally, traumatic brain injuries and intracranial hemorrhages, which can result from accidents or falls, necessitate immediate medical attention, leading to an increased demand for EVDs.

Traumatic brain injuries (TBIs) resulting from accidents, sports injuries, and other events have been on the rise. TBIs often require surgical interventions, including the use of EVDs to manage intracranial pressure and drain excess cerebrospinal fluid. The surge in trauma cases has directly contributed to the increasing demand for EVDs in the medical sector. Awareness about the importance of early diagnosis and intervention in neurological disorders has been steadily increasing, both among healthcare professionals and the general public. As a result, more individuals are seeking medical

attention for neurological symptoms, leading to higher diagnosis rates and EVD placement when necessary. Moreover, healthcare providers are continually improving their skills and knowledge in neurosurgical procedures, further driving the demand for EVDs.

Modern lifestyles characterized by sedentary habits, poor dietary choices, and high stress levels have contributed to the rise in neurological disorders like stroke, which can be caused or exacerbated by these factors. As the global population ages, the incidence of age-related neurological disorders such as Alzheimer's disease and Parkinson's disease has increased. With longer life expectancies, these conditions are becoming more prevalent.

Acute External Ventricular Drain (EVD) is a medical device used to manage patients with neurological conditions, primarily those suffering from hydrocephalus or traumatic brain injury (TBI). This life-saving procedure involves the insertion of a catheter into the brain's ventricles to drain excess cerebrospinal fluid (CSF), which can help reduce intracranial pressure and prevent further damage. Elevated intracranial pressure can lead to severe neurological complications. EVD helps maintain optimal pressure levels, preventing further damage to brain tissue. EVD allows healthcare providers to monitor the composition and volume of cerebrospinal fluid, enabling them to make informed decisions about the patient's treatment plan. EVD provides a route for the administration of medications directly into the cerebrospinal fluid, ensuring rapid and targeted treatment. As more individuals are diagnosed with neurological disorders, the number of patients requiring EVD treatment has also increased, leading to a higher demand for EVD devices.

### Increasing Healthcare Expenditure Fuels Growth in Global Acute External Ventricular Drain Market

Healthcare expenditure is on the rise worldwide, driven by factors such as an aging population, the increasing prevalence of chronic diseases, and advancements in medical technology. One particular segment of the healthcare industry that is benefiting from this trend is the global acute external ventricular drain (EVD) market. EVDs are critical medical devices used in neurosurgery to treat conditions such as hydrocephalus, traumatic brain injuries, and intracranial hemorrhages. As healthcare spending continues to grow, the demand for EVDs is also increasing.

Chronic diseases like hypertension and diabetes can contribute to neurological conditions that require EVDs for treatment. The increasing incidence of these diseases

further fuels the demand for EVDs. Emerging economies are investing heavily in healthcare infrastructure, expanding the availability of specialized medical facilities and neurosurgical services. This expansion facilitates easier access to neurosurgical procedures involving EVDs.

The global acute external ventricular drain market is benefiting significantly from the increasing healthcare expenditure worldwide. As healthcare systems evolve to meet the demands of an aging population and the rising prevalence of chronic diseases, the importance of EVDs in neurosurgery cannot be overstated. Technological advancements, greater awareness, and expanding healthcare infrastructure are all contributing to the market's growth. While the acute EVD market presents significant opportunities, it also faces challenges related to cost containment and regulatory compliance. Industry players must navigate these challenges while continuing to innovate and provide high-quality products to meet the growing demand for EVDs in neurosurgery.

## Key Market Challenges

### Regulatory Compliance and Quality Assurance

One of the primary challenges in the EVD market is ensuring compliance with rigorous regulatory requirements and maintaining high-quality standards. These devices are critical for patient safety, and any flaws in design, manufacturing, or usage can have severe consequences. Manufacturers must adhere to strict guidelines set by regulatory bodies like the FDA and CE (Conformit? Europ?ene) in Europe. Ensuring compliance while striving for innovation is a delicate balance that EVD companies must navigate.

### Cost Constraints

The cost of EVD devices can be a significant barrier for many patients and healthcare institutions. These devices are often complex and require precise engineering, which can make them expensive. Cost constraints can limit access to EVDs for patients in developing countries and strain the budgets of healthcare facilities in developed nations. Finding ways to reduce production costs without compromising quality is an ongoing challenge for manufacturers.

### Infection Control

Infection control is a critical concern when it comes to EVDs. Inserting a foreign object

into the brain carries the risk of infection, which can lead to serious complications. Healthcare providers must follow strict protocols to minimize this risk, including maintaining sterile environments during insertion and monitoring for signs of infection afterward. Advances in materials and techniques are continually being explored to reduce the likelihood of infection associated with EVDs.

### Technological Advancements

While technology has made significant strides in the medical field, the EVD market faces the challenge of keeping up with the latest innovations. Continuous research and development are essential to improve the safety and effectiveness of EVDs. This includes developing smarter monitoring systems, better materials, and less invasive insertion methods. Staying at the forefront of technological advancements is critical for EVD manufacturers.

### Training and Education

Proper training and education are crucial for healthcare professionals who handle EVDs. The insertion and management of these devices require specialized knowledge and skills. Insufficient training can lead to errors, complications, and suboptimal patient outcomes. EVD manufacturers need to invest in training programs and resources to ensure that healthcare providers have the expertise they need.

### Ethical and Legal Issues

The ethical and legal aspects of EVDs can be complex. Decisions about when to insert or remove these devices, as well as end-of-life considerations, can be challenging for healthcare providers and families. Balancing the patient's best interests with legal and ethical guidelines is a continuous challenge in the EVD market.

### Global Disparities in Access

Access to EVDs is not uniform globally. While developed countries often have the resources and infrastructure to provide timely and effective EVD treatment, many developing nations struggle to offer the same level of care. Addressing these disparities in access to EVDs is a moral and logistical challenge that requires cooperation between governments, NGOs, and healthcare organizations.

### Key Market Trends

## Technological Advancements

The healthcare industry has witnessed remarkable transformations in recent years, largely driven by technological advancements that have revolutionized patient care, diagnosis, and treatment. One area where these advancements are making a significant impact is in the field of neurosurgery and critical care. The Global Acute External Ventricular Drain (EVD) Market is experiencing substantial growth due to the integration of cutting-edge technologies, making it an integral component of modern medical practice. Recent advancements in material science and engineering have led to the development of smaller, lightweight, and biocompatible EVD devices. Miniaturized EVDs offer several benefits, including reduced infection risk, ease of placement, and patient comfort. Additionally, these devices are less obtrusive, making them more patient-friendly while providing healthcare professionals with enhanced monitoring capabilities.

Wireless technology has brought a new dimension to EVD management. Modern EVD systems are equipped with wireless sensors and connectivity options that allow real-time monitoring and remote data access. This enables healthcare providers to closely monitor patients' ICP and CSF pressure without being physically present, making it especially valuable in telemedicine and remote patient management scenarios. Artificial intelligence (AI) and machine learning algorithms have made significant inroads in healthcare, including the neurosurgical field. AI-powered EVD systems can analyze vast amounts of data, providing insights into trends and patterns in ICP and CSF pressure. This data-driven approach allows for more precise prediction of critical events and timely interventions, potentially saving lives and improving patient outcomes. Infections associated with EVDs have been a long-standing concern. However, technological advancements have led to the development of EVDs with enhanced infection control features. Antimicrobial-coated catheters, closed drainage systems, and sterile insertion techniques have significantly reduced the risk of infections associated with EVD placement, improving patient safety.

Three-dimensional printing technology has revolutionized the manufacturing of medical devices, including EVDs. Customized EVDs tailored to individual patient anatomy are now possible, reducing the risk of complications and optimizing therapeutic outcomes. These personalized EVDs are designed to fit each patient's unique needs, enhancing precision in drainage and pressure monitoring. The global Acute External Ventricular Drain market is on a steady growth trajectory, driven by these technological advancements. As healthcare providers and institutions recognize the benefits of

modern EVD systems in improving patient care and reducing the burden on healthcare resources, the demand for these devices continues to rise. Furthermore, as the world's population ages and the incidence of conditions requiring EVD placement increases, the market is poised for continued expansion. The integration of advanced technologies not only improves patient outcomes but also reduces healthcare costs by minimizing complications, optimizing treatment strategies, and shortening hospital stays.

## Segmental Insights

### Application Insights

Based on the application, the traumatic brain injury segment emerged as the dominant player in the global market for Acute External Ventricular Drain Market in 2022. Traumatic Brain Injuries are a major public health concern globally. They can result from accidents, falls, sports injuries, or other forms of trauma. The high incidence of TBIs means that there is a substantial patient population in need of neurosurgical interventions like EVDs to manage intracranial pressure (ICP). EVDs are commonly used in neurosurgical and critical care settings to monitor and manage intracranial pressure. In cases of severe Traumatic Brain Injuries, one of the critical complications is elevated ICP, which can lead to secondary brain damage. EVDs are often used to drain cerebrospinal fluid (CSF) and control ICP, helping to mitigate this risk. While TBIs are a significant contributor, acute brain injuries can also result from other causes, such as subarachnoid hemorrhages, intracerebral hemorrhages, and infections like meningitis. However, TBIs tend to be more common and may result in more consistent demand for EVDs. Continuous research and advancements in neurosurgical techniques and EVD technology may expand the use of EVDs to manage various brain injuries. For example, new EVD designs and materials may enhance their effectiveness and reduce complications, making them suitable for a broader range of conditions. Clinical guidelines and protocols often recommend the use of EVDs in cases of severe TBI to monitor and manage ICP. This standardization of care practices can contribute to the dominance of EVDs in the TBI segment.

### Patient Type Insights

The adult patient type segment is projected to experience rapid growth during the forecast period. Adults are more prone to various neurological conditions, such as traumatic brain injuries, intracranial hemorrhages, brain tumors, and hydrocephalus, which often necessitate the use of EVDs. These conditions are more prevalent in adults due to factors like aging, lifestyle choices, and occupational hazards. As people age,

they become more susceptible to certain medical conditions that may require EVDs. Conditions like dementia and Alzheimer's disease can result in increased intracranial pressure, making EVDs a crucial intervention for managing these conditions in older adults. Adults are more likely to engage in activities that carry a risk of head injuries, such as motor vehicle accidents, falls, and workplace incidents. These traumatic injuries often lead to acute intracranial pressure problems, necessitating the use of EVDs for monitoring and treatment. Adult patients frequently undergo neurosurgical procedures, such as tumor resections or aneurysm repairs, where EVDs are commonly used to manage intracranial pressure post-surgery and ensure proper cerebrospinal fluid drainage. Adults typically have higher healthcare utilization rates compared to pediatric or neonatal populations. They are more likely to receive treatment for a wide range of medical conditions, including those requiring EVDs.

## Regional Insights

North America emerged as the dominant player in the global Acute External Ventricular Drain market in 2022, holding the largest market share in terms of value. North America, particularly the United States and Canada, has a robust and advanced healthcare infrastructure. This includes a large number of hospitals, medical centers, and healthcare professionals who can diagnose and treat conditions that require the use of EVDs. This well-established healthcare system creates a substantial demand for medical devices like EVDs. North America is home to many leading medical device companies and research institutions that focus on developing and innovating medical technologies. These organizations often receive substantial funding for research and development, which can result in the creation of new and improved EVD devices and technologies. The United States Food and Drug Administration (FDA) and Health Canada have rigorous but well-defined regulatory processes for medical devices. While this can create barriers to entry for some companies, it also ensures that products on the market meet high safety and efficacy standards. A strong regulatory framework can inspire confidence in both healthcare providers and patients, driving demand for EVDs from companies that meet these standards.

## Key Market Players

Medtronic plc

Integra LifeSciences Corporation

Natus Medical Incorporated



Fuji Systems Corporation

Spiegelberg GmbH

SOPHYSA inc.

Neuromedex inc.

Report Scope:

In this report, the Global Acute External Ventricular Drain Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Acute External Ventricular Drain Market, By Application:

Traumatic Brain Injury (TBI)

Subarachnoid Hemorrhage

Intracerebral Hemorrhage

Others

Acute External Ventricular Drain Market, By Patient Type:

Pediatric

Adult

Acute External Ventricular Drain Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

## UAE

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Acute External Ventricular Drain Market.

### Available Customizations:

Global Acute External Ventricular Drain market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### Company Information

Detailed analysis and profiling of additional market players (up to five).

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