

## **Intracranial Pressure Monitoring - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2021 - 2029**

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### **Report description:**

The Intracranial Pressure Monitoring Market size is estimated at USD 395.43 million in 2024, and is expected to reach USD 512.66 million by 2029, growing at a CAGR of 5.33% during the forecast period (2024-2029).

The COVID-19 pandemic had a significant impact on the intracranial pressure monitoring market owing to the factors such as the diversion of resources to COVID-19 patients, the decline in the footfall of patients other than COVID-19 at hospitals and clinics, and cancellation or rescheduling of procedures, among other factors. Several studies reported that COVID-19 had a severe impact on people with medical conditions like traumatic brain injury (TBI), which may have increased the demand for intracranial pressure monitoring. For instance, according to a research study published in September 2021, by the National Institute of Health, elderly patients with moderate to severe Traumatic Brain Injury (TBI) experienced a considerably higher risk of in-hospital mortality if they had a coronavirus infection and the patients with COVID-19 were 5.45 times more at risk to expire before discharge than the TBI patients who were not COVID-19 positive. Hence, COVID-19 had a significant impact on the intracranial pressure monitoring market. However, currently, the market has reached its pre-pandemic nature in terms of demand for the products and is expected to witness strong growth in the coming years.

Key factors propelling the market growth include the increasing prevalence of neurodegenerative disorders, the growing geriatric population, increasing cases of head and brain injury, and increasing awareness and technological advancements in intracranial pressure monitoring.

Increasing head injuries across the world are one of the leading factors for market growth. For instance, according to the data from the National Institute of Health published in April 2021, according to country-level research, crude incidence rates for TBI for all ages and severity levels ranged from 47.3 per 100,000 to 694 per 100,000 people per year and 83.3 per 100,000 to 849 per

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100,000 people per year. Hence, the high number of people with TBI is expected to propel the market growth in the forecast period.

Similarly, according to another study by the National Institute of Health published in March 2022, the overall annual incidence of Intracerebral Hemorrhage (ICH) in the United States is 23.15 per 100,000 people, and it has been observed that ICH incidence increased with age and its increasing in young and middle-aged Americans. Hence, the high burden of diseases associated with the head and brain is expected to fuel growth in the intracranial pressure monitoring market over the forecast period.

In addition, with the growing burden of neurodegenerative diseases such as dementia, Alzheimer's, Parkinson's, and others, along with the growing geriatric population who are more prone to head injuries and neurodegenerative diseases, the demand for intracranial pressure monitoring is expected to increase which is anticipated to boost growth in the intracranial pressure monitoring market. For instance, according to the September 2021 report of the World Health Organization, about 55 million people around the world were living with dementia, and nearly 10 million cases are reported every year. As per the same source, Alzheimer's is the most common form of dementia and constitutes about 60-70% of the total cases of dementia. According to the October 2021 update of the World Health Organization, the global population of people of age 60 years and more is expected to increase from 1 billion in 2020 to 2.1 billion by 2050, and these factors are collectively expected to have a significant impact on the studied market and propel the growth of the market in upcoming years.

Furthermore, technological advancements in the field of intracranial pressure monitoring are expected to propel market growth. For instance, in February 2021, in order to provide alarms to clinicians directly from its cerebral ultrasound gadget, Novasignal Corporation released a cloud-based app. The new app enables clinicians to receive immediate notifications from the Novaguide device, a transcranial Doppler ultrasound technology that combines robotics and artificial intelligence to provide real-time monitoring of blood flow in the brain (AI).

Hence, owing to the above-mentioned factors, the intracranial pressure monitoring market is expected to grow over the forecast period. However, the lack of skilled professionals and the high cost associated with intracranial pressure monitoring is expected to restrain the growth of the market over the forecast period.

#### Intracranial Pressure Monitoring Market Trends

##### Traumatic Brain Injury Segment by Application is Expected to Have a Significant Market Share Over the Forecast Period

Traumatic brain injury (TBI) is a disruption in the normal operation of the brain that can be caused due to several factors, such as a blow, bump, or jolt to the head, the head violently slamming against something, or when an object pierces the skull and penetrates the brain tissue.

According to the Centers for Disease Control and Prevention's (CDC) March 2022 updated figures, there were roughly 64,000 TBI-related fatalities in the United States in 2021; as per the same source, falls are one of the main causes of traumatic brain injuries. According to the research study by DiVA Journal published in April 2021, TBI accounted for 11-22% of all head injuries and up to 61% of severe cases in both countries, and there was an incidence of 9 per 100,000 in Sweden and 117 per 100,000 in Germany during 2021. Hence, the high prevalence of TBI is expected to propel the segment's growth.

According to a study from the National Institute of Health published in June 2022, intracranial pressure was most frequently brought on by traumatic brain injuries, which commonly result from car accidents, violent acts, sports injuries, explosions, and other types of combat traumas, and thus, the high burden of road accidents in developing and under-developing countries are further expected to have a significant impact on the growth of TBI segment. Therefore, due to the above-mentioned factors, the traumatic brain injury segment is expected to have a significant share of the studied market over the forecast period.

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## North American Region Expected to Occupy Major Share in the Market Over the Forecast Period

The North American region is expected to occupy a significant market share in the intracranial pressure monitoring market over the forecast period owing to the presence of a high burden of head and brain injury/diseases, robust healthcare infrastructure, and the presence of some of the key players of the market in the region.

In the North American region, the United States is expected to be a major market owing to a high prevalence of diseases demanding intracranial pressure monitoring, the launch of new products, and the presence of an esteemed healthcare system in the country. For instance, according to the research study from the American Heart Association published in March 2022, the overall annual incidence of Intracerebral Hemorrhage (ICH) in the United States is 23.15 per 100,000 people, and it has been observed that ICH incidence increased with age and its increasing in young and middle-aged Americans.

According to the March 2021 report of the Alzheimer's Association, approximately 6.2 million people of age 65 years and more were living with Alzheimer's-related dementia in the United States, and it is projected that this number will increase to 13.8 million people by 2060. Moreover, as per the same source, Alzheimer's- and dementia-related deaths in the United States increased by 16% during the COVID-19 pandemic. Hence, the high prevalence of diseases is expected to have a significant impact on the market.

Additionally, the technological advancement in the devices used in monitoring intracranial pressure is further expected to boost market growth. For instance, in November 2021, FUJIFILM Healthcare Americas Corporation launched its advanced, high-field open MRI system called Velocity MRI System during the 2021 Radiological Society of North America (RSNA) event. Therefore, due to the above-mentioned factors, the North American region is expected to have a significant share in the intracranial pressure monitoring market during the forecast period.

### Intracranial Pressure Monitoring Industry Overview

The market studied is moderately competitive. Market leaders with more funds for research and better distribution systems have established their position in the market. Moreover, the Asia-Pacific region is witnessing the emergence of some small players due to increased awareness. This has also helped the market grow. Some of the key companies currently dominating the market are Medtronic PLC, RAUMEDIC AG, Sophysa Ltd, Integra LifeSciences, and Natus Medical Incorporated.

#### Additional Benefits:

- <li> The market estimate (ME) sheet in Excel format </li>
- <li> 3 months of analyst support </li>

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