Intracranial Pressure Monitoring Devices - Market Insights, Competitive Landscape and Market Forecast-2027

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Report description:

Intracranial Pressure Monitoring Devices Market By Technique (Invasive [External Ventricular Drainage (EVD), Microtransducer ICP Monitoring], Noninvasive [Transcranial Doppler Ultrasonography, MRI/CT, Others]), By Product Type (Monitors, Probes, Catheters And Kits, Others), By Application (Traumatic Brain Injury, Intracerebral Hemorrhage, Meningitis, Others), By End-User (Hospitals, Homecare, And Others), and by geography is expected to grow at a steady CAGR forecast till 2027 owing to rising number of neurological disorders and rapid technological developmental activities

Global Intracranial Pressure Monitoring Devices Market was valued at USD 1.55 billion in 2021, growing at a CAGR of 7.60% during the forecast period from 2022 to 2027 to reach USD 2.40 billion by 2027. The Intracranial Pressure Monitoring Devices market is witnessing positive growth owing to the rising number of neurological disorders along with the increasing aging population, growing incidence of traumatic brain injuries, accidents, and trauma cases, the emergent prevalence of brain tumors, childhood hydrocephalus among others. In addition, shifting key player's focus towards the development of technologically advanced products and the increasing government initiatives to raise awareness among patients regarding neurological disorders and their early diagnosis for proper management, among others, are some of the key factors that are likely to upsurge the Intracranial Pressure Monitoring Devices market during the forecast period from 2022-2027.

Intracranial Pressure Monitoring Devices Market Dynamics:

The Intracranial Pressure Monitoring Devices market is witnessing a growth in product demand owing to various reasons. Increasing cases of road traffic injuries and related trauma cases can be considered as one of the key factors responsible for the growth of the Intracranial Pressure Monitoring Devices market.

According to the World Health Organization factsheet (2021) on road traffic injuries, injuries associated with road accidents are the leading cause of fatality in children and young adults belonging to the age group 5-29 years across the globe. The same factsheet further stated that near about 20-50 million people suffer from non-fatal injuries in road accidents resulting in a disability as a result of their injury. Injuries of this nature may result in severe head trauma. This may result in the formation of blood clots inside the brain which may restrict the flow of cerebrospinal fluid (CSF) inside the brain. This in turn leads to the accumulation of CSF inside the brain, which in turn would be treated with the help of Intracranial Pressure Monitoring Devices.

Therefore, the increase in the cases of road traffic injuries and accidents is expected to contribute to the growing demand for Intracranial Pressure Monitoring Devices, eventually taking the global Intracranial Pressure Monitoring Devices market forward during the forecast period from 2022-2027.

Another key factor responsible for the growth of the Intracranial Pressure Monitoring Devices market is the rising prevalence of neurological disorders like brain tumors. Brain tumors are associated with the accumulation of CSF in the brain which ultimately results in the increase of the intracranial pressure inside the brain.

As per the GLOBOCAN study published by the International Agency for Research on Cancer published in 2020, brain cancers accounted for 308,102 cases across the globe in 2020. The excess fluid puts pressure on the brain, which can damage it. Therefore, in order to avoid the fluid buildup inside the brain, Intracranial Pressure Monitoring Devices are employed. Therefore, the rising global prevalence of neurological disorders like brain tumors is expected to result in the growing demand for Intracranial Pressure Monitoring Devices, thereby aiding in the global Intracranial Pressure Monitoring Devices market growth.

However, the market's growth has been stifled by a scarcity of skilled specialists for equipment operation and handling, as well as the high cost of procedures utilizing intracranial pressure devices.

The global Intracranial Pressure Monitoring Devices market witnessed a period of temporary setback as necessary measures to contain the COVID-19 spread were imposed such as country-wide lockdowns. One of the major steps during this was the suspension of numerous elective procedures and outpatient visits which reduced the demand for Intracranial Pressure Monitoring Devices in the market as a large number of surgeries across different medical specialties were suspended on account of either being non-essential or several of intensive care units were closed because of the reduction in the number of the patient during the initial lockdown period, thereby limiting the market growth for a short time. However, the market for Intracranial Pressure Monitoring Devices is on the period of recovery with the resumption of activities across various domains including healthcare services owing to the approval and administration of numerous COVID-19 vaccines across the globe, thereby presenting a positive future outlook for the Intracranial Pressure Monitoring Devices market during the forecast period from 2022-2027.

Intracranial Pressure Monitoring Devices Market Segment Analysis:

Intracranial Pressure Monitoring Devices Market By Technique (Invasive [External Ventricular Drainage (EVD), Microtransducer ICP Monitoring], Noninvasive [Transcranial Doppler Ultrasonography, MRI/CT, Others]), By Product Type (Monitors, Probes, Catheters and Kits, Others), By Application (Traumatic Brain Injury, Intracerebral Hemorrhage, Meningitis, Others), By End-User (Hospitals, Homecare, and Others), and By Geography (North America, Europe, Asia-Pacific, And Rest Of the World)

In the by technique segment of Intracranial Pressure Monitoring Devices market, the External Ventricular Drainage (EVD) market segment will hold the major share in the year 2021. The large market share of this product segment can be attributed to the growing adoption of these devices among the patients owing to the rising prevalence of brain related injuries. Moreover, insertion of an External Ventricular Drain (EVD) is one of the most common and important lifesaving procedures in the neurologic intensive care unit.

Various forms of acute brain injury benefit from the continuous intracranial pressure (ICP) monitoring and cerebrospinal fluid (CSF) diversion provided by an EVD. The benfit associated with these devices is responsible for the increases in acceptance of Intracranial Pressure Monitoring Devices among patients.

Furthermore, External Ventricular Drainage (EVD) is gaining more commercial acceptability because of the factors stated above, which eventually improves the market penetration. All these advantages of these devices make physicians more inclined to use External Ventricular Drainage (EVD). This, in turn, is expected that the External Ventricular Drainage (EVD) segment will grow over the forecast period.

Therefore, the advantages offered by the External Ventricular Drainage (EVD) are predicted to contribute to the increasing demand, thereby driving the growth of the overall Intracranial Pressure Monitoring Devices market during the forecast period.

North America is expected to dominate the overall Intracranial Pressure Monitoring Devices Market:

Among all the regions, North America is expected to account for the largest share in the Global Intracranial Pressure Monitoring Devices market in the year 2021. This is because of the high prevalence of hydrocephalus from various reasons such as congenital hydrocephalus, brain aneurysms, traumatic brain injury among other factors, rising population of the elderly as well as high awareness among people regarding disease management and the new product launches in the region.

For instance,as per the data provided by the Centers for Disease Control and Prevention 2020, each year, about 1,427 babies are

born with spina bifida or 1 in every 2,758 births in the country. Many babies born with spina bifida also develop hydrocephalus which may boost the demand for Intracranial Pressure Monitoring Devices, eventually driving the United States Intracranial Pressure Monitoring Devices market growth during the forecast period.

Additionally, according to the data (2020) provided by the Brain Aneurysm Foundation, a US-based organization, an estimated 6.5 million people in the United States have an un-ruptured brain aneurysm. The annual rate of rupture in the country is approximately 8 ? 10 per 100,000 people. About 30,000 people in the United States suffer a brain aneurysm rupture each year. A brain aneurysm ruptures every 18 minutes. It has been established that blood from a torn aneurysm can result in the blockage of CSF circulation leading to fluid buildup and increased pressure on the brain ultimately causing hydrocephalus. Therefore, the increase in the number of patients suffering from neurological diseases like brain aneurysms in the country is expected to drive the demand for Intracranial Pressure Monitoring Devices, thereby contributing to the overall growth of the Intracranial Pressure Monitoring Devices market in the North American region.

Moreover, the above-mentioned facts point towards the presence of a diverse patient pool in the country as well as the North American region that may benefit from the utilization of Intracranial Pressure Monitoring Devices. Furthermore, the well-established patient care system along with awareness among patients and caregivers regarding different types of neurosurgeries and products available for management is further expected to aid in the North America Intracranial Pressure Monitoring Devices market growth.

In addition, the presence of key players in the region and supportive reimbursement programs further provide immense growth opportunities for the Intracranial Pressure Monitoring Devices market. Moreover, the constant focus of market players in targeting the region in new product launches is further expected to aid in the growth of the North America Intracranial Pressure Monitoring Devices market.

Intracranial Pressure Monitoring Devices Market Key Players:

Some of the key market players operating in the Intracranial Pressure Monitoring Devices market include Natus Medical Incorporated, RAUMEDIC AG, Integra LifeSciences, Sophysa, Spiegelberg GmbH & Co. KG, Medtronic, IRRAS AB, Luciole Medical AG, Saeum Meditec, Recorders & Medicare Systems P Ltd., Shenzhen Delica Medical Equipment Co., Ltd., Viasonix, ELCAT, Atys Medical, RIMED, General Electric Company, Siemens Healthcare GmbH, Canon Medical Systems Corporation, Hyperfine, Neural Analytics, Inc. and others.

Recent Developmental Activities in the Intracranial Pressure Monitoring Devices Market:

? On January 27, 2020, Medical Technique manufacturer Raumedic launched the Raumed Home ICP, a new home-use device for intracranial pressure (ICP) monitoring.

? On October 05, 2018, Saeum Meditec, a Korean firm, acquired European CE Mark approval for its EPI-DETECTION device, a novel digital pressure monitor with original Technique developed by the company with help from Severance Hospital, Yonsei University.

? On June 01, 2018, Branchpoint Technologies announced that the US Food and Drug Administration granted 510(k) clearance for its Aura intracranial pressure (ICP) monitoring system.

Key Takeaways from the Intracranial Pressure Monitoring Devices Market Report Study

? Market size analysis for current Intracranial Pressure Monitoring Devices market size (2021), and market forecast for 5 years (2022-2027)

? The effect of the COVID-19 pandemic on this market is significant. To capture and analyze suitable indicators, our experts are closely watching the Intracranial Pressure Monitoring Devices market.

? Top key product/services/Technique developments, merger, acquisition, partnership, joint venture happened for last 3 years

? Key companies dominating the global Intracranial Pressure Monitoring Devices market.

? Various opportunities available for the other competitor in the Intracranial Pressure Monitoring Devices market space.

? What are the top performing segments in 2021? How these segments will perform in 2027.

? Which is the top-performing regions and countries in the current Intracranial Pressure Monitoring Devices market scenario?

? Which are the regions and countries where companies should have concentrated on opportunities for Intracranial Pressure Monitoring Devices market growth in the coming future?

Target Audience who can be benefited from this Intracranial Pressure Monitoring Devices Market Report Study

? Intracranial Pressure Monitoring Devices products providers
? Research organizations and consulting companies
? Intracranial Pressure Monitoring Devices-related organizations, associations, forums, and other alliances
? Government and corporate offices
? Start-up companies, venture capitalists, and private equity firms
? Distributors and Traders dealing in Intracranial Pressure Monitoring Devices
? Various End-users who want to know more about the Intracranial Pressure Monitoring Devices market and latest technological developments in the Intracranial Pressure Monitoring Devices market.
Frequently Asked Questions for Intracranial Pressure Monitoring Devices Market:
1. What are Intracranial Pressure Monitoring Devices?
Intracranial pressure (ICP) monitoring devices are those devices that might be placed inside the head to monitor and sense the pressure inside the skull and then send measurements to a recording device.
2. What is the market for Global Intracranial Pressure Monitoring Devices?
Global Intracranial Pressure Monitoring Devices Market was valued at USD 1.55 billion in 2021, growing at a CAGR of 7.60% during the forecast period from 2022 to 2027 to reach USD 2.40 billion by 2027.
3. What are the drivers for Global Intracranial Pressure Monitoring Devices Market?
The Intracranial Pressure Monitoring Devices market is witnessing a positive market growth owing to the rising number of neurological disorders along with the increasing aging population, growing incidence of traumatic brain injuries, accidents, and trauma cases, the emergent prevalence of brain tumors, childhood hydrocephalus. In addition, shifting key player's focus towards the development of technologically advanced products and the mounting government initiatives to raise awareness among patients regarding neurological disorders and their early diagnosis for proper management, among others.
4. Who are the key players operating in the Global Intracranial Pressure Monitoring Devices Market?
Some of the key market players operating in the Intracranial Pressure Monitoring Devices market include Natus Medical Incorporated, RAUMEDIC AG, Integra LifeSciences, Sophysa, Spiegelberg GmbH & Co. KG, Medtronic, IRRAS AB, Luciole Medical AG, Saeum Meditec, Recorders & Medicare Systems P Ltd., Shenzhen Delica Medical Equipment Co., Ltd., Viasonix, ELCAT, Atys Medical, RIMED, General Electric Company, Siemens Healthcare GmbH, Canon Medical Systems Corporation, Hyperfine, Neural Analytics, Inc. and others.
5. Which region has the highest share in Intracranial Pressure Monitoring Devices Market?
North America is expected to hold the highest share in the revenue in the Intracranial Pressure Monitoring Devices market during the forecast period. Because of the high prevalence of hydrocephalus from various reasons such as congenital hydrocephalus, brain aneurysms, traumatic brain injury among other factors, rising population of the elderly as well as high awareness among people regarding disease management and the new product launches in the region.

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