

## **Cranial Fixation and Stabilization Systems Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)**

Market Report | 2023-01-23 | 132 pages | Mordor Intelligence

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### **Report description:**

The Cranial Fixation and Stabilization Systems Market is expected to register a CAGR of 8.7% during the forecast period (2022-2027).

The COVID-19 outbreak was an unprecedented health concern and has significantly impacted the cranial fixation and stabilization systems market. With the pandemic still in its expansion phase with newer variants, patients with long-term neurological disorders are severely impacted as the SARS-CoV-2 infection worsened when it was associated with neurological and neuropsychiatric illness. Thus, neurological surgeries were delayed or postponed during COVID-19, adversely impacting the market studied in its initial phase. For instance, according to the study titled "Neurosurgery and coronavirus: impact and challenges-lessons learned from the first wave of a global pandemic" published in the Acta Neurochirurgica in November 2021, amid the pandemic, there was a 33.6 percent decrease in neurosurgical emergency referrals and a 55.6 percent decrease in operations. Thus, decreasing the demand for cranial fixation and stabilization systems among the patient population.

Cranial fixation is the process designed to assure the structural stability of the replaced skull flap following a craniotomy procedure. It is the most delicate and demanding procedure in the field of medicine. In this procedure, bone flaps, fragments, or grafts are fixed to the cranium to provide stable closure. According to the World Health Organization, in October 2021, approximately 1.3 million people died in road accidents, and an additional 20-30 million were disabled or injured. Between 20 and 50 million people suffer from non-fatal injuries, with many incurring disabilities due to their injuries. Such injuries may result in an increased demand for cranial fixation procedures since these devices offer greater precision by immobilizing the main structures within the skull.

Additionally, the approval from the regulatory authorities is also propelling the growth of the market. For instance, in October

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2021, OssDsign received expanded market clearance from the United States Food and Drug Administration (FDA) for OssDsign Cranial PSI, a patient-specific cranial implant.

The increasing prevalence of neurological diseases, the rising incidence of road accidents and injuries, and technological advancements in the field of cranial fixation and stabilization systems are the key driving factors in the cranial fixation and stabilization systems market. However, the high cost of surgeries may impede the growth of the market.

#### Cranial Fixation & Stabilization Systems Market Trends

##### Cranial Fixation Systems Segment is Expected to Hold a Major Market Share Over the Forecast

A cranial fixation system is designed for structural stability of the skull and is used during neuro or spinal surgeries. The major factors driving the segment's growth are the growing number of road accidents; surge in the prevalence of neurological disorders coupled with technological advancements; and upsurge in research and development activities.

According to the World Health Organization (WHO) 2021, road traffic injuries lead to more than 1.35 million deaths yearly and cause up to 50 million injuries globally. Such an increase in road accidents and injuries may affect the individual's body as well as the skull resulting in craniotomy surgeries, in turn, boosting the demand for cranial fixation systems among the patient population.

Furthermore, the growing availability of customized product offerings and the increasing volume of brain surgeries requiring cranial fixation systems are also expected to augment the segment's growth. For instance, according to the study titled "A new device for bone cranial flap fixation: Technical note and surgical remarks. A multicentric experience" published in the Surgical Neurology International in February 2021, cranial fixation is a postoperative cranial bone flap fixation system that is safe, reliable, and simple to use. Every neurosurgical procedure majorly involves the fixation of bone flaps after craniotomy. Thus, increasing the use of the cranial system in neurological procedures is likely to have a positive impact on the segment's growth.

Thus, the rising incidence of accidents, brain injuries, and the increasing prevalence of neurological diseases are the key driving factors for cranial fixation system segment growth.

##### North America is Expected to Hold a Significant Share in the Market and Expected to do Same in the Forecast Period

North America is expected to hold a significant market share in the global cranial fixation and stabilization systems market due to the rising incidence of accidents, brain injuries, and the increasing prevalence of neurological diseases in this region.

Furthermore, due to the high prevalence of neurological diseases and new product launches, the market is expected to project growth. For instance, according to the Brain Injury Canada Statistics published in November 2020, in Canada, traumatic brain injury occurs at an annual rate of 500 out of 100,000 individuals. This means that nearly 456 people every day, or one person is injured every three minutes in Canada. Such a high burden of brain injuries is expected to boost the demand for cranial fixation and stabilization systems, in turn, driving the growth of the market in the region.

Also, the growing aging population in the region is expected to increase the burden of neurological diseases as the senior population is more prone to neurodegenerative disorders. For instance, according to the Statistics Canada article titled "A portrait of Canada's growing population aged 85 and older from the 2021 Census" published in April 2022, there are over 861,000 people aged 85 and older who were counted in the 2021 Census. It also reported that the population aged 85 and older comprise 2.3% of the total population of Canada. Furthermore, technological advancements in cranial fixation and stabilization systems and growing healthcare expenditure levels are also fueling the growth of the regional market to a large extent.

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Thus, these aforementioned factors are likely to impel the market's growth in North America.

## Cranial Fixation & Stabilization Systems Market Competitor Analysis

The Cranial Fixation and Stabilization Systems market is fragmented and competitive and consists of several major players. In terms of market share, a few major players dominate the market. Some major players have used various strategies such as expansions, agreements, new product launches, joint ventures, acquisitions, and partnerships to increase their footprints in this market. Some of the companies which are currently dominating the market include Integra LifeSciences Corporation, B. Braun Melsungen AG, Depuy Synthes (Johnson & Johnson), Medtronic Plc, Stryker Corporation, Zimmer Biomet Holding, Inc, Evonos GmbH & Co. KG, Changzhou Huida Medical Instrument Co., Ltd, Jeil Medical Corporation, and KLS Martin Group.

Additional Benefits:

The market estimate (ME) sheet in Excel format

3 months of analyst support

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