

North America Cranial Implants Market Report (2021-2031) by Scope, Segmentation, Dynamics, and Competitive Analysis

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Abstracts

The North America cranial implants market is projected to grow significantly, reaching approximately US\$ 1,166.77 million by 2031, up from US\$ 674.28 million in 2023, reflecting a compound annual growth rate (CAGR) of 7.1% from 2023 to 2031.

Executive Summary and Market Analysis

The cranial implants market in North America is divided into three main regions: the United States, Canada, and Mexico. Several factors are propelling the growth of this market, including a high incidence of traumatic brain injuries (TBI), an aging demographic, and advancements in medical technology. The increasing rates of accidents, sports-related injuries, and neurological disorders are driving the demand for cranial implants. Innovations in biocompatible materials, such as polyether ether ketone (PEEK) and titanium, along with the use of 3D printing for personalized solutions, are enhancing surgical outcomes. Companies in the sector are also focusing on innovation to make cranial implant procedures more effective and accessible.

Market Segmentation Analysis

The North America cranial implants market can be analyzed through various segments, including type, material, and application.

By Type: The market is categorized into parietal, frontal, occipital, temporal, and sphenoid implants. In 2023, parietal implants accounted for the largest market

share.

By Material: The segmentation by material includes polymethyl methacrylate, polyether ether ketone, titanium, and others. Polyether ether ketone was the leading material in market share in 2023.

By End User: The end-user segmentation includes hospitals, trauma centers, and others, with hospitals holding the largest share in 2023.

Market Outlook

Traumatic brain injuries are a major public health issue, disrupting normal brain function due to external mechanical forces. Common causes of TBIs include falls, motor vehicle accidents, and sports injuries, predominantly affecting younger and older adults. TBIs can range from mild concussions to severe injuries that lead to long-term cognitive, physical, and emotional disabilities. A report from The Lancet Neurology Commissions in 2022 highlighted that TBIs are among the leading causes of injury-related death and disability, impacting 55 million individuals globally and costing over US\$ 400 billion annually. In Canada, the Brain Injury Association of Waterloo-Wellington reports that TBIs occur in 500 out of 100,000 people each year, with over 6,000 patients becoming permanently disabled due to TBIs annually. The rising demand for effective treatment options, particularly cranial implants, is driven by the increasing incidence of TBIs. These implants are essential for treating severe head injuries, protecting the brain from further damage, and restoring the skull's protective function. As TBI cases continue to rise, the demand for cranial implants is expected to increase significantly in the coming years.

Country Insights

The North America cranial implants market is primarily composed of the US, Canada, and Mexico, with the US holding the largest market share in 2023. The growth in this region is attributed to the high prevalence of TBIs, an aging population, and the availability of advanced medical technologies. The increasing number of accidents, sports injuries, and neurological conditions further fuels the demand for cranial implants. Innovations in biocompatible materials and 3D printing technology are improving surgical outcomes and making procedures more effective and accessible.

Company Profiles

Key players in the North America cranial implants market include Stryker Corp, Zimmer Biomet Holdings Inc, Integra LifeSciences Holdings Corp, OsteoMed SA, Anatomics Pty Ltd, Matrix Surgical Holdings LLC, Calavera Surgical, Medtronic Plc, Xilloc Medical BV, Johnson & Johnson, evonos GmbH & Co. KG, B Braun SE, UAB Ortho Baltic, 3D Systems Corp, GPC Medical Ltd, Bioplate Inc, EUROS SAS, Biocomposites Ltd, Medprin Biotech GmbH, Kelyniam Global Inc, MedCAD, KLS Martin Group, and Longeviti Neuro Solutions LLC, among others. These companies are employing various strategies, including expansion, product innovation, and mergers and acquisitions, to enhance their product offerings and increase market share.

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