

North America Skull Clamp Market Forecast to 2028 - COVID-19 Impact and Regional Analysis by Product (Three-Pin Skull Clamp, Four-Pin Skull Clamp, and Two-Pin Skull Clamp), Application (Surgery and Medical Imaging), Material (Stainless Steel, Aluminum Alloy, Titanium, and Radiolucent), Accessories (Skull Pins, Headrests, and Others), End User (Hospitals, Specialty Clinics, and Ambulatory Surgical Centers)

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Abstracts

The North America skull clamp market was valued at US\$ 895.30 million in 2022 and is projected to reach US\$ 1,466.39 million by 2028; it is expected to grow at a CAGR of 8.6% from 2022 to 2028.

Increasing Prevalence of Neurosurgeries is Driving the North America Skull clamp Market

Skull clamps are routinely used in cranial neurosurgical procedures and selected cervical procedures. Its demand is majorly driven by rising incidences of traumatic brain injury, brain aneurysm or cerebral aneurysm and Parkinson's disease leading to a growing number of neurosurgeries.

According to data published by the Brain Aneurysm Foundation in 2020, ~6.5 million people in the US, i.e., 1 in 50 persons, suffer from an unruptured brain aneurysm every year; likewise, ~30,000 people suffer from cerebral aneurysm rupture yearly. The data also reveals that ~40.0% of ruptures are fatal and need intensive care and immediate attention. As per the National Library of Medicine information in 2022, the global

prevalence of cerebral aneurysms was ~3.2%, with a mean age of 50 and an overall 1:1 gender ratio; this ratio changes significantly among people of age 50 and above to reach 2:0, with the predominance of females. Further, according to the American Society of Clinical Oncology (ASCO) in 2019, ~23,820 adults and 3,720 children in the US were diagnosed with primary cancerous tumors in the spinal cord and brain. Patient positioning and head fixation are the most important aspects of all brain surgeries. These procedures require an accurate understanding of the scalp and skull anatomy and the process for approaching aneurysms. Thus, the increasing prevalence of brain cancer, brain aneurysm, and other neurological diseases is among the critical factors driving the market growth of skull clamps.

North America Skull Clamp Market Overview

The North America skull clamp market is segmented into the US, Canada, and Mexico. The U.S. is currently leading the market attributed to rising awareness among the population, the surge in research and development activities, and favorable government policies. Moreover, the market growth in Canada is expected to grow due to increasing support from the government to address the rising concerns about brain disorders. The market across Mexico is also estimated to grow due to the increasing medical industrialization and export of medical devices to U.S. and other countries. The US holds a significant share of the skull clamp market in North America. Traumatic brain injury (TBI) is a leading cause of death and disability among persons in the United States. Each year, an estimated 1.5 million Americans sustain a TBI. According to CDC in 2019, there were over 223,135 TBI-related hospitalizations and 64,362 TBI-related deaths. More than 610 TBI-related hospitalizations and 166 TBI-related fatalities occur every day. The number and rate of TBI-related hospitalizations and deaths were higher among people aged 75 and up. This age group is responsible for around 32% of TBI-related hospitalizations and 28% of TBI-related deaths. According to the Centers for Disease Control and Prevention (CDC), the cost of treatment of traumatic brain injuries in the U.S. is around US\$ 45 Bn each year. Moreover, an estimated 80,000 to 90,000 patients in the U.S. suffer from disabilities due to traumatic brain injuries every year. The penetration of skull clamp across several end-user applications is expected to increase product developments during the forecast period. Such conducive factors are anticipated to offer a favorable environment in the US market by 2028.

Exhibit: North America Skull Clamp Market Revenue and Forecast to 2028 (US\$ Million)

North America Skull Clamp Market Segmentation

The North America skull clamp market is segmented into product, application, material, accessories, end user, and country.

The North America skull clamp market, by product, is segmented into three-pin skull clamp, four-pin skull clamp, and two-pin skull clamp. The three-pin skull clamp segment held the largest market share in 2022.

Based on application, the North America skull clamp market is divided into surgery and medical imaging. The surgery segment held a larger share of the market in 2022.

Based on material, the North America skull clamp market is divided into stainless steel, aluminium alloy, titanium, and radiolucent. The stainless steel segment held the largest share of the market in 2022.

Based on accessories, the North America skull clamp market is divided into skull pins, headrest, and others. The skull pins segment held the largest share of the market in 2022.

The skull clamp market, by end user, is segmented into hospitals, specialty clinics, and ambulatory surgical centers. The hospitals segment held the largest share of the market in 2022.

Based on country, the North America skull clamp market is segmented into the US, Canada, and Mexico. The US dominated the market in 2022.

Black Forest Medical Group; Integra LifeSciences Holdings Corp; Hill Rom Holding Inc; Eschmann Technologies Ltd; BD; TeDan Surgical Innovations; Herbert Thailand Co Ltd; and Schaerer Medical AG are the leading companies operating in the North America skull clamp market.

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