

South & Central America Traumatic Brain Injury Diagnostics Equipment Market Forecast to 2030 -Regional Analysis - by Techniques (Non-Invasive, Invasive, and Combination Techniques), Device (Imaging devices and Monitoring Devices), and End User (Hospitals and Clinics, Diagnostic Centers, and Others)

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# **Abstracts**

The South & Central America traumatic brain injury diagnostics equipment market was valued at US\$ 148.10 million in 2022 and is expected to reach US\$ 375.50 million by 2030; it is estimated to register a CAGR of 12.3% from 2022 to 2030.

Growing Use of MRI over CT to Limit Inpatient Mortality and Marginally Reduce Diagnostic Cost Fuels South & Central America Traumatic Brain Injury Diagnostics Equipment Market

Although CT is often used in emergency settings for detecting life-threatening head injuries, it can miss subtle findings, such as contusions, small areas of hemorrhage, and diffuse axonal injury. As per the Health Economics Resource Center (HERC) report, the research studies revealed that CT has missed 10–20% of the brain abnormalities that magnetic resonance imaging (MRI) distinctively detects. According to an article published by the Journal of Clinical Imaging Science, the inpatient brain MRI was independently associated with lower mortality. Contrastingly, the use of CT in the evaluation and management of severe TBI is attributable to cancer risk and cancer-related mortality due to radiation exposure. Further, according to the Health Economics Resource Center (HERC) report, the comorbidity-adjusted cost of CT scan was US\$ 284 for mild TBI and US\$ 455 for severe TBI, standing higher than MRI, which was US\$



230 for mild TBI and US\$ 309 for severe TBI cases. In 2018, MRI value per unit cost accounted for US\$ 732, with a range of US\$ 692 to US\$ 750 for TBI based on severity. Therefore, MRI is widely used in TBI diagnosis and management to limit mortality rates and marginally reduce diagnostic costs.

South & Central America Traumatic Brain Injury Diagnostics Equipment Market Overview

South & Central America region covers key countries such as Brazil, Argentina, and Rest of South & Central America. Among South & Central America region. The Rest of South & Central America holds largest market share for traumatic brain injury diagnostic equipment market. The accelerated demand for advanced diagnostic equipment and quick and effective diagnosis for TBI patients are the key driving factors behind the market development. However, adverse effects of contrast/medium agent is hampering the market growth. The Rest of South & Central America countries include Chile, Colombia, and Peru. Colombian researchers have identified brain injuries that impair response to simple commands, making patients unconscious with low awareness. The study suggested that patients suffering from hidden consciousness can hear and comprehend verbal commands. However, they cannot carry commands due to injuries in brain circuits that relay instructions from the brain to muscles.

Likewise, the Journal of Neurosciences in Rural Practice report revealed that Colombia still maintains a high incidence rate of trauma from social violence and traffic accidents. The estimates associated with TBI range from 49% to 70%, with little information about deaths. Further, the Peru J Neurosurg report revealed that head trauma consultations are highly common in pediatric emergency departments in Ecuador. Therefore, the rising prevalence of brain trauma in South & Central America propels the demand for traumatic brain injury diagnostic equipment, owing to which the market is likely to flourish during 2022–2030.

South & Central America Traumatic Brain Injury Diagnostics Equipment Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Traumatic Brain Injury Diagnostics Equipment Market Segmentation

The South & Central America traumatic brain injury diagnostics equipment market is categorized into techniques, device, end user, and country.



Based on techniques, the South & Central America traumatic brain injury diagnostics equipment market is segmented into non-invasive, invasive, and combination techniques. The invasive segment held the largest South & Central America traumatic brain injury diagnostics equipment market share in 2022. Furthermore, the non-invasive segment is subcategorized into electroencephalography (EEG), brain–computer interface (BCI), eye tracking and near-infrared spectroscopy (NIRS), magnetic resonance imaging (MRI), magnetoencephalography (MEG), transcranial magnetic stimulation (TMS), cerebral metabolic rate of oxygen (CMRO2), intracranial pressure, and others .Additionally, invasive segment is subsegmented into cerebral perfusion pressure (CPP) and pressure reactivity index (PRx), partial brain tissue oxygen pressure (PbtO2), cerebral microdialysis (CMD), intracranial pressure, and others.

In terms of device, the South & Central America traumatic brain injury diagnostics equipment market is bifurcated into imaging devices and monitoring devices. The imaging devices segment held a larger South & Central America traumatic brain injury diagnostics equipment market share in 2022.

By end user, the South & Central America traumatic brain injury diagnostics equipment market is divided into hospitals and clinics, diagnostic centers, and others. The hospitals and clinics segment held the largest South & Central America traumatic brain injury diagnostics equipment market share in 2022.

By country, the South & Central America traumatic brain injury diagnostics equipment market is segmented into Brazil, Argentina, and the Rest of South & Central America. The Rest of South & Central America dominated the South & Central America traumatic brain injury diagnostics equipment market share in 2022.

GE HealthCare Technologies Inc, Elekta AB, Integra LifeSciences Holdings Corp, Raumedic AG, Soterix Medical Inc, Medtronic Plc, and Compumedics Ltd are some of the leading companies operating in the South & Central America traumatic brain injury diagnostics equipment market.

#### Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the South & Central America traumatic brain injury diagnostics equipment market.

Highlights key business priorities in order to assist companies to realign their



business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the South & Central America traumatic brain injury diagnostics equipment market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth South & Central America market trends and outlook coupled with the factors driving the South & Central America traumatic brain injury diagnostics equipment market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - South & Central America Traumatic Brain Injury Diagnostics Equipment Market

GE HealthCare Technologies Inc

Elekta AB

Integra LifeSciences Holdings Corp

Raumedic AG

Soterix Medical Inc

Medtronic Plc

Compumedics Ltd



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