

North 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 North America traumatic brain injury diagnostics equipment market was valued at US\$ 1,360.02 million in 2022 and is expected to reach US\$ 3,340.17 million by 2030; it is estimated to register a CAGR of 11.9% from 2022 to 2030.

Accelerated Demand for Advanced Diagnostic Equipment Fuels North America Traumatic Brain Injury Diagnostics Equipment Market

According to the Medical Research Council 2022 report, 10 million people across the world sustain traumatic brain injury (TBI) annually. Among these, the male population was 1.5 times higher than females admitted to hospitals for a head injury. As per The Economist Intelligence Unit report, the global healthcare burden of TBI is estimated to be around US\$ 400 billion annually. The most common form of ABI is TBI due to an accident or stroke. The Centers for Disease Control and Prevention (CDC) report revealed that an estimated 1.7 million TBI-related emergency department visits, hospitalizations, and deaths occur annually in the US, especially among adults aged 75 years and older as they are at high risk of falling due to problems with gait and balance. Also, road accidents are the leading cause of TBI-related deaths in the US and are highest among adults aged 20–24 years. Therefore, manufacturers are developing innovative products to diagnose TBI. In October 2023, bioMérieux announced Conformité Européenne (CE) marking for "VIDAS TBI (GFAP, UCH-L1)," a test

intended to improve the assessment of patients suffering from mild traumatic brain injury (mTBI). VIDAS TBI (GFAP, UCH-L1) test measures the concentration of glial fibrillary acidic protein (GFAP) and ubiquitin C-terminal hydrolase L1 (UCH-L1)—the two brain biomarkers released into the bloodstream starting from the first hour following a brain injury. It is an easy-to-interpret test providing a test window of up to 12 hours after injury, which can help in shortening total emergency department workup time.

North America Traumatic Brain Injury Diagnostics Equipment Market Overview

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 Centers for Disease Control and Prevention (CDC) report revealed that an estimated 2.5 million people suffer from TBI annually in the US. According to the KNAPP & ROBERTS report, 1 in every 6 Americans live with TBI-related disability in the US alone, accounting for approx. 5.3 million. With the rising prevalence of TBI, the economic cost accounts for US\$ 76.5 billion. Among US\$ 76.5 billion, US\$ 11.5 billion accounts for direct medical costs and nearly US\$ 65 billion for indirect costs. The leading causes of TBI include falls (45%), motor vehicle crashes (14.3%), assaults (10.7%), and unknown (19.0%). Further, companies are launching innovative products for the diagnosis of TBI. For instance, in August 2022, Abbott announced a new blood test for concussions to predict outcomes from brain injury and treatment interventions. The researchers used Abbott's "i-STAT TBI Plasma Test," the only FDA-cleared rapid test intended for concussion, and Abbott's core laboratory ARCHITECT instrument to measure two biomarkers in blood plasma associated with brain injury. The i-STAT TBI Plasma test measures the level of biomarkers released in the bloodstream in response to the brain injury; the level of biomarkers assist in determining the need for a CT scan. Additionally, Sense Neuro Diagnostics announced clearance to conduct clinical trials for hemorrhage detection. The new trial approved by the FDA Division of Neurosurgical, Neurointerventional, and Neurodiagnostic Devices began in June 2023, including up to 300 patients at 30 US, Canada, and India sites. This noninvasive technology has a potential to collect 360 data points within 2.5 seconds to detect brain hemorrhage or stroke type, thereby helping quick response by physicians, emergency department personnels, neuro ICU teams, and military field hospitals assessing and monitoring TBI.

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

North America Traumatic Brain Injury Diagnostics Equipment Market Segmentation

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

Based on techniques, the North America traumatic brain injury diagnostics equipment market is segmented into non-invasive, invasive, and combination techniques. The invasive segment held the largest North 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 sub segmented 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 North America traumatic brain injury diagnostics equipment market is bifurcated into imaging devices and monitoring devices. The imaging devices segment held a larger North America traumatic brain injury diagnostics equipment market share in 2022.

By end user, the North 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 North America traumatic brain injury diagnostics equipment market share in 2022.

By country, the North America traumatic brain injury diagnostics equipment market is segmented into the US, Canada, and Mexico. The US dominated the North America traumatic brain injury diagnostics equipment market share in 2022.

GE HealthCare Technologies Inc, Elekta AB, Integra LifeSciences Holdings Corp, Natus Medical Inc, Raumedic AG, BrainScope Co Inc, Soterix Medical Inc, Medtronic Plc, Vivonics Inc, NanoDx Inc, Compumedics Ltd, Sense Diagnostics Inc, NeuraSignal Inc, Neurovigil Inc, and Luciole Medical AG, are some of the leading companies operating in the North 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 North 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 North 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 North America market trends and outlook coupled with the factors driving the North 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 - North America Traumatic Brain Injury Diagnostics Equipment Market

GE HealthCare Technologies Inc

Elekta AB

Integra LifeSciences Holdings Corp

Natus Medical Inc

Raumedic AG

BrainScope Co Inc

Luciole Medical AG

Soterix Medical Inc

Medtronic Plc

Vivonics Inc

NanoDx Inc

Compumedics Ltd

Sense Diagnostics Inc

NeuraSignal Inc

Neurovigil Inc

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. NORTH AMERICA TRAUMATIC BRAIN INJURY DIAGNOSTICS EQUIPMENT MARKET – KEY MARKET DYNAMICS

- 4.1 Market Drivers
 - 4.1.1 Accelerated Demand for Advanced Diagnostic Equipment
 - 4.1.2 Quick and Effective Diagnosis for TBI Patients
- 4.2 Market Restraints
 - 4.2.1 Adverse Effects of Contrast Medium/Agent
- 4.3 Market Opportunities
 - 4.3.1 Growing Use of MRI over CT to Limit Inpatient Mortality and Marginally Reduce Diagnostic Cost
- 4.4 Future Trends
 - 4.4.1 Emergence of Portable Non-invasive Monitoring Devices to Diagnose TBI Patients
- 4.5 Impact of Drivers and Restraints:

5. TRAUMATIC BRAIN INJURY DIAGNOSTICS EQUIPMENT MARKET – NORTH AMERICA MARKET ANALYSIS

- 5.1 Overview
- 5.2 North America Traumatic Brain Injury Diagnostics Equipment Market Revenue (US\$ Million), 2022–2030

5.3 Number of Hospitalized TBI Patients

5.4 Pricing Analysis

6. NORTH AMERICA TRAUMATIC BRAIN INJURY DIAGNOSTICS EQUIPMENT MARKET ANALYSIS – BY TECHNIQUES

6.1 Overview

6.2 Non-Invasive

6.2.1 Overview

6.2.2 Non-Invasive: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.3 Electroencephalography (EEG)

6.2.3.1 Electroencephalography (EEG): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.4 Brain–computer interface (BCI)

6.2.4.1 Brain–computer interface (BCI): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.5 Eye tracking and near-infrared spectroscopy (NIRS)

6.2.5.1 Eye tracking and near-infrared spectroscopy (NIRS): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.6 Magnetic resonance imaging (MRI)

6.2.6.1 Magnetic resonance imaging (MRI): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.7 Magnetoencephalography (MEG)

6.2.7.1 Magnetoencephalography (MEG): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.8 Transcranial magnetic stimulation (TMS)

6.2.8.1 Transcranial magnetic stimulation (TMS): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.9 Cerebral metabolic rate of oxygen (CMRO₂)

6.2.9.1 Overview

6.2.9.2 Cerebral metabolic rate of oxygen (CMRO₂): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.10 Intracranial Pressure

6.2.10.1 Overview

6.2.10.2 Intracranial Pressure: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.10.3 Transcranial Doppler Ultrasonography (TCD)

6.2.10.3.1 Transcranial Doppler Ultrasonography (TCD): Traumatic Brain Injury

Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.10.4 Tympanic Membrane Displacement (TMD)

6.2.10.4.1 Tympanic Membrane Displacement (TMD): Traumatic Brain Injury

Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.10.5 Optic Nerve Sheath Diameter (ONSD)

6.2.10.5.1 Optic Nerve Sheath Diameter (ONSD): Traumatic Brain Injury

Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.10.6 Magnetic Resonance Imaging (MRI) and Computer Tomography (CT)

6.2.10.6.1 Magnetic Resonance Imaging (MRI) and Computer Tomography (CT):

Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.10.7 Fundoscopy and Papilledema

6.2.10.7.1 Fundoscopy and Papilledema: Traumatic Brain Injury Diagnostics

Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.2.11 Others

6.2.11.1 Others: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.3 Invasive

6.3.1 Overview

6.3.2 Invasive: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.3.3 Cerebral Perfusion Pressure (CPP) and Pressure Reactivity Index (PRx)

6.3.3.1 Cerebral Perfusion Pressure (CPP) and Pressure Reactivity Index (PRx):

Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.3.4 Partial Brain Tissue Oxygen Pressure (PbtO₂)

6.3.4.1 Partial Brain Tissue Oxygen Pressure (PbtO₂): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.3.5 Cerebral Microdialysis (CMD)

6.3.5.1 Cerebral Microdialysis (CMD): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.3.6 Intracranial Pressure

6.3.6.1 Overview

6.3.6.2 Intracranial Pressure: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.3.6.3 External Ventricular Drainage (EVD)

6.3.6.3.1 External Ventricular Drainage (EVD): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.3.6.4 Microtransducer ICP Monitoring Devices

6.3.6.4.1 Microtransducer ICP Monitoring Devices: Traumatic Brain Injury
Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

6.3.7 Others

6.3.7.1 Others: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and
Forecast to 2030 (US\$ Million)

6.4 Combination Techniques

6.4.1 Overview

6.4.2 Combination Techniques: Traumatic Brain Injury Diagnostics Equipment Market
– Revenue and Forecast to 2030 (US\$ Million)

7. NORTH AMERICA TRAUMATIC BRAIN INJURY DIAGNOSTICS EQUIPMENT MARKET ANALYSIS – BY DEVICE

7.1 Overview

7.2 Imaging devices

7.2.1 Overview

7.2.2 Imaging devices: Traumatic Brain Injury Diagnostics Equipment Market –
Revenue and Forecast to 2030 (US\$ Million)

7.3 Monitoring Devices

7.3.1 Overview

7.3.2 Monitoring Devices: Traumatic Brain Injury Diagnostics Equipment Market –
Revenue and Forecast to 2030 (US\$ Million)

8. NORTH AMERICA TRAUMATIC BRAIN INJURY DIAGNOSTICS EQUIPMENT MARKET ANALYSIS – BY END USER

8.1 Overview

8.2 Hospitals and Clinics

8.2.1 Overview

8.2.2 Hospitals and Clinics: Traumatic Brain Injury Diagnostics Equipment Market –
Revenue and Forecast to 2030 (US\$ Million)

8.3 Diagnostic Centers

8.3.1 Overview

8.3.2 Diagnostic Centers: Traumatic Brain Injury Diagnostics Equipment Market –
Revenue and Forecast to 2030 (US\$ Million)

8.4 Others

8.4.1 Overview

8.4.2 Others: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and
Forecast to 2030 (US\$ Million)

9. NORTH AMERICA TRAUMATIC BRAIN INJURY DIAGNOSTICS EQUIPMENT MARKET – COUNTRY ANALYSIS

9.1.1 North America Traumatic Brain injury Diagnostic Equipment Market Overview

9.1.2 North America: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast Analysis – by Country

9.1.2.1 United States: Traumatic Brain Injury Diagnostic Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

9.1.2.1.1 United States: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Techniques

9.1.2.1.2 United States: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Non-invasive

9.1.2.1.2.1 United States: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Non-invasive ICP

9.1.2.1.3 United States: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Invasive

9.1.2.1.3.1 United States: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Invasive ICP

9.1.2.1.4 United States: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Device

9.1.2.1.5 United States: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by End User

9.1.2.2 Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

9.1.2.2.1 Overview

9.1.2.3 Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

9.1.2.3.1 Canada: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Techniques

9.1.2.3.2 Canada: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Non-invasive

9.1.2.3.2.1 Canada: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Non-invasive ICP

9.1.2.3.3 Canada: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Invasive

9.1.2.3.3.1 Canada: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Invasive ICP

9.1.2.3.4 Canada: Traumatic Brain Injury Diagnostics Equipment Market

Breakdown, by Device

9.1.2.3.5 Canada: Traumatic Brain Injury Diagnostics Equipment Market

Breakdown, by End User

9.1.2.4 Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

9.1.2.4.1 Overview

9.1.2.5 Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

9.1.2.5.1 Mexico: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Techniques

9.1.2.5.2 Mexico: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Non-invasive

9.1.2.5.2.1 Mexico: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Non-invasive ICP

9.1.2.5.3 Mexico: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Invasive

9.1.2.5.3.1 Mexico: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Invasive ICP

9.1.2.5.4 Mexico: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Device

9.1.2.5.5 Mexico: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by End User

10. INDUSTRY LANDSCAPE

10.1 Overview

10.2 Growth Strategies in the Global Traumatic Brain Injury Diagnostic Equipment Market

10.3 Organic Developments

10.3.1 Overview

10.4 Inorganic Developments

10.4.1 Overview

11. COMPANY PROFILES

11.1 GE HealthCare Technologies Inc

11.1.1 Key Facts

11.1.2 Business Description

11.1.3 Products and Services

- 11.1.4 Financial Overview
- 11.1.5 SWOT Analysis
- 11.1.6 Key Developments
- 11.2 Elekta AB
 - 11.2.1 Key Facts
 - 11.2.2 Business Description
 - 11.2.3 Products and Services
 - 11.2.4 Financial Overview
 - 11.2.5 SWOT Analysis
 - 11.2.6 Key Developments
- 11.3 Integra LifeSciences Holdings Corp
 - 11.3.1 Key Facts
 - 11.3.2 Business Description
 - 11.3.3 Products and Services
 - 11.3.4 Financial Overview
 - 11.3.5 SWOT Analysis
 - 11.3.6 Key Developments
- 11.4 Natus Medical Inc
 - 11.4.1 Key Facts
 - 11.4.2 Business Description
 - 11.4.3 Products and Services
 - 11.4.4 Financial Overview
 - 11.4.5 SWOT Analysis
 - 11.4.6 Key Developments
- 11.5 Raumedic AG
 - 11.5.1 Key Facts
 - 11.5.2 Business Description
 - 11.5.3 Products and Services
 - 11.5.4 Financial Overview
 - 11.5.5 SWOT Analysis
 - 11.5.6 Key Developments
- 11.6 BrainScope Co Inc
 - 11.6.1 Key Facts
 - 11.6.2 Business Description
 - 11.6.3 Products and Services
 - 11.6.4 Financial Overview
 - 11.6.5 SWOT Analysis
 - 11.6.6 Key Developments
- 11.7 Luciole Medical AG

- 11.7.1 Key Facts
- 11.7.2 Business Description
- 11.7.3 Products and Services
- 11.7.4 Financial Overview
- 11.7.5 SWOT Analysis
- 11.7.6 Key Developments
- 11.8 Soterix Medical Inc
 - 11.8.1 Key Facts
 - 11.8.2 Business Description
 - 11.8.3 Products and Services
 - 11.8.4 Financial Overview
 - 11.8.5 SWOT Analysis
 - 11.8.6 Key Developments
- 11.9 Medtronic Plc
 - 11.9.1 Key Facts
 - 11.9.2 Business Description
 - 11.9.3 Products and Services
 - 11.9.4 Financial Overview
 - 11.9.5 SWOT Analysis
 - 11.9.6 Key Developments
- 11.10 Vivionics Inc
 - 11.10.1 Key Facts
 - 11.10.2 Business Description
 - 11.10.3 Products and Services
 - 11.10.4 Financial Overview
 - 11.10.5 SWOT Analysis
 - 11.10.6 Key Developments
- 11.11 NanoDx Inc
 - 11.11.1 Key Facts
 - 11.11.2 Business Description
 - 11.11.3 Products and Services
 - 11.11.4 Financial Overview
 - 11.11.5 SWOT Analysis
 - 11.11.6 Key Developments
- 11.12 Compumedics Ltd
 - 11.12.1 Key Facts
 - 11.12.2 Business Description
 - 11.12.3 Products and Services
 - 11.12.4 Financial Overview

- 11.12.5 SWOT Analysis
- 11.12.6 Key Developments
- 11.13 Sense Diagnostics Inc
 - 11.13.1 Key Facts
 - 11.13.2 Business Description
 - 11.13.3 Products and Services
 - 11.13.4 Financial Overview
 - 11.13.5 SWOT Analysis
 - 11.13.6 Key Developments
- 11.14 NeuraSignal Inc
 - 11.14.1 Key Facts
 - 11.14.2 Business Description
 - 11.14.3 Products and Services
 - 11.14.4 Financial Overview
 - 11.14.5 SWOT Analysis
 - 11.14.6 Key Developments
- 11.15 Neurovigil Inc
 - 11.15.1 Key Facts
 - 11.15.2 Business Description
 - 11.15.3 Products and Services
 - 11.15.4 Financial Overview
 - 11.15.5 SWOT Analysis
 - 11.15.6 Key Developments

12. APPENDIX

- 12.1 About The Insight Partners
- 12.2 Glossary of Terms

List Of Tables

LIST OF TABLES

Table 1. North America Traumatic Brain Injury Diagnostics Equipment Market Segmentation

Table 2. United States: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Techniques

Table 3. United States: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million) – by Non-invasive

Table 4. United States: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million) – by Non-invasive ICP

Table 5. United States: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Invasive

Table 6. United States: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million) – by Invasive ICP

Table 7. United States: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million) – by Device

Table 8. United States: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by End User

Table 9. Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Techniques

Table 10. Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Non-invasive

Table 11. Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Non-invasive ICP

Table 12. Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Invasive

Table 13. Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Invasive ICP

Table 14. Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 15. Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by End User

Table 16. Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Techniques

Table 17. Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Non-invasive

Table 18. Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and

Forecast to 2030(US\$ Million) – by Non-invasive ICP

Table 19. Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Invasive

Table 20. Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Invasive ICP

Table 21. Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by Device

Table 22. Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million) – by End User

Table 23. Organic Developments Done by Companies

Table 24. Inorganic Developments Done by Companies

Table 25. Glossary of Terms, Traumatic Brain Injury Diagnostics Equipment Market

List Of Figures

LIST OF FIGURES

- Figure 1. North America Traumatic Brain Injury Diagnostics Equipment Market Segmentation, by Country
- Figure 2. North America Traumatic Brain Injury Diagnostics Equipment Market – Key Market Dynamics
- Figure 3. Impact Analysis of Drivers and Restraints
- Figure 4. North America Traumatic Brain Injury Diagnostics Equipment Market Revenue (US\$ Million), 2022–2030
- Figure 5. North America Traumatic Brain Injury Diagnostics Equipment Market Share (%) – by Techniques (2022 and 2030)
- Figure 6. Non-Invasive: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 7. Electroencephalography (EEG): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 8. Brain–computer interface (BCI): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 9. Eye tracking and near-infrared spectroscopy (NIRS): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 10. Magnetic resonance imaging (MRI): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 11. Magnetoencephalography (MEG): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 12. Transcranial magnetic stimulation (TMS): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 13. Cerebral metabolic rate of oxygen (CMRO₂): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 14. Intracranial Pressure: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 15. Transcranial Doppler Ultrasonography (TCD): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 16. Tympanic Membrane Displacement (TMD): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 17. Optic Nerve Sheath Diameter (ONSD): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 18. Magnetic Resonance Imaging (MRI) and Computer Tomography (CT): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030

(US\$ Million)

Figure 19. Fundoscopy and Papilledema: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 20. Others: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 21. Invasive: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 22. Cerebral Perfusion Pressure (CPP) and Pressure Reactivity Index (PRx): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 23. Partial Brain Tissue Oxygen Pressure (PbtO₂): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 24. Cerebral Microdialysis (CMD): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 25. Intracranial Pressure: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 26. External Ventricular Drainage (EVD): Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 27. Microtransducer ICP Monitoring Devices: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 28. Others: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 29. Combination Techniques: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 30. North America Traumatic Brain Injury Diagnostics Equipment Market Share (%) – by Device (2022 and 2030)

Figure 31. Imaging devices: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 32. Monitoring Devices: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 33. Traumatic Brain Injury Diagnostics Equipment Market Share (%) – by End User (2022 and 2030)

Figure 34. Hospitals and Clinics: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 35. Diagnostic Centers: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 36. Others: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 37. North America Traumatic Brain Injury Diagnostics Equipment Market, by Key

Countries- Revenue (2022) US\$ Million

Figure 38. North America: Traumatic Brain Injury Diagnostics Equipment Market Breakdown, by Key Countries, 2022 and 2030 (%)

Figure 39. United States: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million)

Figure 40. Canada: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million)

Figure 41. Mexico: Traumatic Brain Injury Diagnostics Equipment Market – Revenue and Forecast to 2030(US\$ Million)

Figure 42. Growth Strategies in the Traumatic Brain Injury Diagnostic Equipment Market

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