

North America Pediatric MRI Market Forecast to 2028 – Regional Analysis – by Type (Functional Brain MRI, Cardiac MRI, 4D MRI, and Others), Application (Neurology, Orthopedics, Cardiology, Oncology, and Others), Product Type [Equipment and Coil Design (Pediatric Head/Neck/Spine MRI Coil, Interchangeable Pediatric Brain Coil, Pediatric Blanket Coil, and Others)], Age Group [Adolescent (11-18 Years), Child (2-11 Years), Infants and Toddlers (28 Days-23 Months), Neonatal Stage (0-27 Days), and Fetal Stage], and End User (Hospitals, Pediatric Clinics, Diagnostic Centers, and Others)

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Abstracts

The North America pediatric MRI market was valued at US\$ 1,633.62 million in 2022 and is expected to reach US\$ 2,567.12 million by 2028; it is estimated to grow at a CAGR of 7.8% from 2022 to 2028.

Adoption of Digital Health Technology to Improve Patient Care fueling the North America Pediatric MRI Market

The adoption of advanced technologies in healthcare settings, such as hospitals and pediatric specialty clinics, is increasing across the region, improving patient safety and minimizing the overall turnaround time and hospital stay. The incorporation of artificial intelligence (AI), machine learning (ML), the Internet of Things (IoT), and other new

technologies in healthcare, medicine, and scientific research has become increasingly important. Advancements in the miniaturization of sensors and other technologies also offer opportunities to collect physiological and functional data directly from patients participating in clinical trials, especially in children. Along with cell phones and other digital platforms, sensors provide a versatile tool for assessing patient responses to investigational treatments in the field of pediatrics.

Since the COVID-19 pandemic, the number of children suffering from mental health problems have increased rapidly. In October 2022, the President of the US announced prioritizing the expansion of the Pediatric Mental Health Care Access Awards program. The program allows pediatric care providers to ensure telehealth services for expert mental health care. As it is normal for young patients to feel anxious or stressed during treatment, several children's hospitals, such as Sanford Children's, Children's Memorial Hermann, and Children's Minnesota, use interactive patient engagement technology to entertain and distract patients undergoing medical procedures or treatments. Apps can help parents access their children's health records and additional information. For example, Milestone Tracker, an app developed by CDC, provides checklists for parents to ensure their children are developing properly between the ages of 2–5. Similarly, SoftSpot is an FDA-approved and the Health Insurance Portability and Accountability Act (HIPAA)-compliant app powered by AI and Computer Vision (CV) technology. The app measure's the skulls of newborn babies to detect cases of plagiocephaly or brachycephaly.

In March 2017, Royal Philips and Phoenix Children's Hospital announced a 15-year agreement worth US\$ 65 million. Phoenix Children's and Royal Philips developed dose reduction systems and other technologies that follow pediatric MRI protocols, which are factory standards across the region. They also have an advanced 3D print laboratory that constructs life-size models of patients to study heart and brain physiology using MRI. Furthermore, research on advanced MRI technologies is also increasing across the region. For instance, in September 2019, researchers from the University of Colorado School of Medicine identified a new imaging method named "fast MRI." The method is effective in analyzing pediatric traumatic brain injuries (TBI), thereby eliminating risks related to radiation exposure and anesthesia.

Therefore, the adoption of new technologies in healthcare is driving the growth of the North America pediatric MRI market .

North America Pediatric MRI Market Overview

The North America pediatric MRI market is segmented into three major countries—the US, Canada, and Mexico. The US holds the largest market share owing to factors such as the increasing burden of pediatric diseases, rising number of product launches, and growing R&D activities to develop advanced pediatric MRI devices. The rising number of premature births, increasing prevalence of pediatric diseases, and high demand for preventive care and imaging solutions drive the demand for pediatric imaging systems. According to the Centers for Disease Control and Prevention (CDC), around 9.2 million children in the US are admitted to the emergency department due to accidental injuries caused by falls, road traffic accidents, and burns. Increasing cases of traumatic injuries propel the demand for MRI solutions.

North America Pediatric MRI Market Revenue and Forecast to 2028 (US\$ Million)

North America Pediatric MRI Market Segmentation

The North America pediatric MRI market is segmented based on type, application, product type, age group, end user, and country. Based on type, the North America pediatric MRI market is segmented into functional brain MRI, cardiac MRI, 4D MRI, and others. The functional brain MRI segment held the largest market share in 2022.

Based on application, the North America pediatric MRI market is segmented into neurology, orthopedics, cardiology, oncology, and others. The neurology segment held the largest market share in 2022.

Based on product type, the North America pediatric MRI market is bifurcated into equipment and coil design. The equipment segment held a larger market share in 2022.

Based on age group, the North America pediatric MRI market is segmented into adolescent (11-18 Years), child (2-11 Years), infants and toddlers (28 Days-23 Months), neonatal stage (0-27 Days), and fetal stage. The adolescent (11-18 Years) segment held the largest market share in 2022.

Based on end user, the North America pediatric MRI market is segmented into hospitals, pediatric clinics, diagnostic centers, and others. The hospitals segment held the largest market share in 2022.

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

Advanced Imaging Research Inc; Aspect Imaging Ltd; GE HealthCare Technologies Inc; Hyperfine Inc; Koninklijke Philips NV; LMT Medical Systems GmbH; NORAS MRI products GmbH; Siemens Healthineers AG; and Time Medical Holding are some of the leading players operating in the North America pediatric MRI market.

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