

# **Asia Pacific 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 Asia Pacific pediatric MRI market was valued at US\$ 670.85 million in 2022 and is expected to reach US\$ 1,077.81 million by 2028; it is estimated to grow at a CAGR of 8.2% from 2022 to 2028.

Use of MRI Simulators to Adapt Children to MRI Scanners Fueling the Pediatric MRI Market

The experience of undergoing magnetic resonance imaging (MRI) can lead to anxiety, particularly for pediatric patients and their families. As a result, children are often sedated to complete the exam. However, sedation increases the cost of the procedure and requires an anesthesiologist to be present during the exam. Alternative methods to

improve success and ensure non-sedation experience can be implemented with the adoption of new technologies and simulations that reduce the number of procedures requiring anesthesia. An MRI simulator can be used on children to scan and assess if they need sedation; it is available in various forms. Virtual reality, a computer-generated simulation of a 3D environment that can be experienced using a head-mounted display (HMD), has emerged as an effective solution for reducing anxiety in various pediatric psychological applications, including fear of the procedure. For instance, the Ambient Experience program by Philips Healthcare incorporates architecture, design, and other technologies for lighting and sound to create a relaxed environment for the scan. For MRI scans, Philips offers the Ambient Experience in-bore Connect, which projects videos inside the bore to calm and instruct patients. The children can select a theme, which can be played in the room before the scan and inside the bore during the scan. In March 2021, Philips and The Walt Disney Company collaborated to test the effects of custom-made animation, such as specially made Disney stories, in the Philips Ambient Experience. A few of Disney animation stories featured Mickey Mouse, Ariel, Marvel's Avengers, Star Wars' Yoda, and other Disney characters. Therefore, the implementation of such technologies and play-based simulators to help children adapt to MRI scans is expected to boost the market growth during the forecast period.

### Asia Pacific Pediatric MRI Market Overview

The pediatric MRI market in Asia Pacific is segmented into China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific. The market is driven by factors such as increasing number of R&D activities, adoption of innovative technologies and products, and rising use of MRI devices owing to the growing prevalence of pediatric diseases in the region. In recent years, Japan has experienced an enormous increase in road traffic accidents, which drives the demand for pediatric MRI. It is used to help diagnose a wide range of conditions in children that are caused due to injury, illness, or congenital abnormalities. It detects a variety of brain conditions and abnormalities such as cysts, tumors, bleeding, swelling, and problems with the blood vessels. Such aforementioned factors boost the pediatric MRI market growth in Japan.

### Asia Pacific Pediatric MRI Market Revenue and Forecast to 2028 (US\$ Million)

#### Asia Pacific Pediatric MRI Market Segmentation

The Asia Pacific pediatric MRI market is segmented based on type, application, product type, age group, end user, and country. Based on type, the Asia Pacific 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 Asia Pacific 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 Asia Pacific 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 Asia Pacific 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 Asia Pacific 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 Asia Pacific pediatric MRI market is segmented into China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific. Japan dominated the Asia Pacific pediatric MRI market share in 2022.

GE HealthCare Technologies Inc, Hyperfine Inc, Koninklijke Philips NV, LMT Medical Systems GmbH, Siemens Healthineers AG, and Time Medical Holding are some of the leading players operating in the Asia Pacific pediatric MRI market.

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