

# **Europe 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 Europe pediatric MRI market was valued at US\$ 1,086.96 million in 2022 and is expected to reach US\$ 1,665.48 million by 2028; it is estimated to grow at a CAGR of 7.4% from 2022 to 2028.

Use of MRI Simulators to Adapt Children to MRI Scanners Fueling the Europe 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. Philips began the clinical research project program in six European hospitals and received the pilot project's results by the end of 2021. The goal of the program was to help alleviate children's anxiety and improve staff's ability to carry out tasks in MRI scanning rooms across six European hospitals.

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.

## Europe Pediatric MRI Market Overview

Europe consists of five major countries namely Germany, France, UK, Italy, and Spain. The market is also evaluated for the rest of countries in Europe. The market is driven by the factors such as increasing chronic diseases, innovative technology and products, and growing healthcare expenditure in this region. The medical device market in Germany is the largest market in Europe and the third largest globally, after the US and Japan. The demand for advanced, innovative technologies and diagnostic, therapeutic, and minimally invasive equipment remains high across the region. Medical device manufacturers in Germany can also seek government funding for a variety of research projects and receive grants from the Kreditanstalt für Wiederaufbau (KfW). The increasing focus of manufacturers on new product development and strategic collaborations to develop advanced diagnostic devices such as pediatric MRI is

expected to propel the market growth during the forecast period.

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

### Europe Pediatric MRI Market Segmentation

The Europe pediatric MRI market is segmented based on type, application, product type, age group, end user, and country. Based on type, the Europe 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 Europe 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 Europe 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 Europe 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 Europe 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 Europe pediatric MRI market is segmented into Germany, the UK, France, Italy, Spain, and the Rest of Europe. Germany dominated the Europe pediatric MRI market share in 2022.

GE HealthCare Technologies Inc, Hyperfine Inc, Koninklijke Philips NV, LMT Medical Systems GmbH, Neoscan Solutions GmbH, NORAS MRI products GmbH, and Siemens Healthineers AG are some of the leading companies operating in the Europe pediatric MRI market.

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