

# **Ireland MRI Market By Type (Fixed, Mobile), By Architecture (Closed MRI Systems and Open MRI Systems), By Source (Domestic v/s Import), By Application (Brain and Neurological, Oncology, Spine and Musculoskeletal, Abdominal, Cardiac, Others), By End User (Hospitals, Imaging Centers, Ambulatory Surgical Centers, Others), By Region, Competition Forecast & Opportunities, 2028F**

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## **Abstracts**

The MRI Market in Ireland has witnessed significant growth and development in the years. MRI (Magnetic Resonance Imaging) is a non-invasive imaging technique that uses powerful magnets and radio waves to create detailed images of the internal structures of the body. It is widely used in the diagnosis and monitoring of various medical conditions. It plays a crucial role in the diagnosis and treatment planning for a wide range of medical specialties, including neurology, orthopedics, cardiology, and oncology. The availability of state-of-the-art MRI scanners has improved the accuracy of diagnoses and facilitated better patient care.

### **Rising Prevalence of Chronic Disease**

Ireland has witnessed a significant rise in the prevalence of chronic diseases, which has subsequently resulted in an increased demand for advanced medical imaging technologies, such as Magnetic Resonance Imaging (MRI) systems. Chronic diseases are health conditions that require ongoing medical management, and they have become a growing concern for the Irish population. For instance, according to the National Institute of Health, the prevalence of the four main categories of chronic diseases

among adults in Ireland has been estimated to be 9.4% for asthma, 9.8% for Chronic Obstructive Pulmonary Disease (COPD), 5.2% for diabetes, and 4.3% for cardiovascular disease (CVD). Several factors, including lifestyle and dietary habits, have contributed to the rising prevalence of chronic diseases in Ireland. Changes in lifestyle and dietary habits have led to an increase in non-communicable diseases, such as cardiovascular diseases, diabetes, and obesity. Sedentary lifestyles, unhealthy diets, and tobacco use have become more common, leading to a higher incidence of these chronic conditions and leading to the development of the MRI market in Ireland.

MRI provides detailed and high-resolution images of soft tissues, organs, and structures within the body. This level of diagnostic accuracy is particularly important in the assessment of chronic diseases, as it allows healthcare professionals to identify and evaluate abnormalities, tumors, lesions, or degenerative changes with precision. The demand for accurate diagnoses to guide appropriate treatment plans is directly linked to the increasing prevalence of chronic diseases. Many chronic diseases require long-term monitoring to evaluate treatment effectiveness and disease progression. MRI provides a non-invasive method for serial imaging and monitoring changes in tumor size, response to therapy, or disease activity. Regular MRI scans allow healthcare providers to adjust treatment plans based on the evolving needs of the patient. The increasing prevalence of chronic diseases necessitates ongoing monitoring, which drives the demand for MRI services.

Also, the rise in the geriatric population is leading to an increase in the population suffering from chronic diseases, raising the demand for the MRI market. The prevalence of age-related chronic diseases, such as neurodegenerative diseases like Alzheimer's disease and Parkinson's disease, is rising along with life expectancy. The aging population necessitates more thorough medical care and diagnostic equipment to successfully manage these disorders, which raises the demand for MRI technologies for prompt diagnosis and treatment. The benefits that MRI provides in detecting and monitoring chronic diseases can be ascribed to the rise in demand for MRI equipment, thereby bolstering the growth of the Ireland MRI market.

### Clinical Advantages of MRI

The clinical advantages of MRI are highly relevant to the growth of the Ireland MRI market. These advantages make MRI an essential imaging modality in various medical specialties and contribute to its increasing demand, such as superior soft tissue visualization, multiplanar imaging, non-invasive and radiation-free, functional imaging capabilities, multi-parametric imaging, and real-time imaging. MRI excels at providing

detailed imaging of soft tissues, including organs, muscles, tendons, and nerves. This superior soft tissue visualization allows healthcare providers to identify and assess abnormalities, lesions, and tumors with high precision. The ability to differentiate between healthy and diseased tissues is crucial for accurate diagnoses and treatment planning, driving the demand for MRI. Hence, it influences the growth of the Ireland MRI Market.

According to the published research article, High-field magnetic resonance imaging (MRI) at 3.0 T has rapidly gained acceptance in the MR community for both research and clinical applications. The most straightforward advantage of high-field MRI at 3.0 T is the increased signal-to-noise ratio (SNR) that scales linearly with the field strength. Additionally, MRI enables imaging in multiple planes, including axial, sagittal, and coronal views. This capability allows healthcare professionals to examine anatomical structures from various angles and obtain a comprehensive understanding of the patient's condition. The ability to visualize structures in multiple planes enhances diagnostic accuracy and aids in surgical planning, contributing to the growth of the Ireland MRI market.

### Growing Technological Advancement

Ongoing technological advancements in MRI systems have played a vital role in driving the market. High-field strength scanners, such as 3 Tesla (3T) MRI machines, offer superior image quality and enhanced visualization of structures, leading to improved diagnostic accuracy. Additionally, the development of advanced imaging techniques, such as functional MRI (fMRI) and diffusion-weighted imaging (DWI), has expanded the clinical applications of MRI, further driving its adoption. The multiple advancements in technology are advancing MRI techniques by adding features such as high field strength, better clarity, etc. These systems are equipped with the latest technological advancements, such as higher magnetic field strengths, improved image quality, faster scan times, and specialized imaging techniques. The addition of new features includes the development of higher magnetic field strengths. Traditional MRI systems operated at 1.5 Tesla (T), but newer systems now offer higher field strengths, such as 3T and even 7T. Higher magnetic field strengths result in crisper details, better spatial resolution, and better image quality. This increases the visibility of subtle abnormalities and smaller structures for medical professionals, allowing for more accurate diagnosis and raising the demand for MRI in relation to patients needing illness diagnosis. Another technological breakthrough is the introduction of specialized MRI techniques. These techniques include functional MRI (fMRI), diffusion-weighted imaging (DWI), and magnetic resonance spectroscopy (MRS), among others. fMRI enables the mapping of

brain activity, aiding in the diagnosis and treatment of neurological disorders. Diffusion-Weighted Imaging (DWI) is particularly useful in assessing tissue integrity and identifying abnormalities in conditions such as stroke. Insights into the chemical makeup of tissues are provided by magnetic resonance spectroscopy (MRS), which helps in the detection of some cancers and metabolic diseases. The availability of these specialized imaging techniques has boosted the clinical utility of MRI and widened its clinical uses across a range of medical specialties.

Additionally, there have been improvements in image acquisition speed. Faster imaging techniques, such as parallel imaging and compressed sensing, have reduced scan times significantly. This is particularly beneficial for patients who may have difficulty remaining still during the scanning process, such as young children or individuals with claustrophobia. Faster scans also enhance patient throughput, allowing healthcare facilities to serve a larger number of patients efficiently. For instance, according to the global cancer observatory, in 2020, about 31,855 new cases of cancer were reported in Ireland, including 4,503 cases of prostate cancer, 3,433 cases of breast cancer, 3,261 cases of lung cancer, 3,178 cases of colorectal cancer, 1,316 cases of melanoma skin cancer, and 16,154 cases of other types. In addition to this, the growing demand for quick and effective diagnostic procedures is expected to contribute to the adoption of MRI machines, thereby propelling the growth of the MRI market in Ireland.

Furthermore, improvements in MRI hardware and software have enhanced patient comfort and the overall procedure. The noise levels that patients endure while scanning have decreased thanks to advancements in gradient technology and magnet design. Additionally, improvements in patient positioning methods and coil design have made scans more relaxing, reducing anxiety and enhancing patient compliance. The availability of cutting-edge MRI systems in Ireland enables medical professionals to provide more precise diagnosis, create individualized treatment plans, and assess the efficacy of medicines for a variety of illnesses.

## Market Segmentation

Ireland MRI market is segmented based on the type, architecture, source, application, end user, region and competitive landscape. Based on type, the market is segmented into fixed, and mobile. Based on architecture, the market is segmented into closed MRI systems and open MRI systems. Based on source, the market is segmented into domestic and import. Based on Application, the market is segmented into brain and neurological, oncology, spine and musculoskeletal, abdominal, cardiac, and others. Based on end user, the market is segmented into hospitals, imaging centers,

ambulatory surgical centers, and others.

## Market Players

Siemens Healthineers Ireland, Johnson & Johnson Ireland Limited, Abbott Ireland Limited, Boston Scientific Ireland Ltd, Medtronic Ireland Limited, LivaNova Ireland Limited, Integer Ireland Medical Ltd, etc. are some of the leading companies operating in the market.

## Report Scope:

In this report, Ireland MRI market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

### Ireland MRI Market, By Architecture

Closed MRI Systems

Open MRI Systems

### Ireland MRI Market, By Source

Domestic

Import

### Ireland MRI Market, By Application

Brain and Neurological

Oncology

Spine and Musculoskeletal

Abdominal

Cardiac

Others

## Ireland MRI Market, By End User

Hospitals

Imaging Centers

Ambulatory Surgical Centers

Others

## Ireland MRI Market, By Region:

Northern Ireland

North-West

West

Midland East

Dublin

Shannon

South-East

Cork-Kerry

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in Ireland MRI market.

## Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the

*Ireland MRI Market By Type (Fixed, Mobile), By Architecture (Closed MRI Systems and Open MRI Systems), By Sour...*

report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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