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Israel Magnetic Resonance Imaging (MRI) Market By Field Strength (High-Field MRI Systems (1.5t MRI Systems, 3t MRI Systems), Low-To-Mid-Field MRI Systems (

Abstracts

Israel magnetic resonance imaging (MRI) market is anticipated to witness a growth of steady CAGR in the forecast period, 2024-2028. The magnetic resonance imaging (MRI) market in Israel has witnessed significant growth over the past few years, owing to the development and utilization of cardiac pacemaker compatible MRI systems in the country. Cardiac pacemaker-compatible MRI systems work by using a specialized software that adjusts the MRI machine's magnetic field to reduce the risk of pacemaker malfunction. Additionally, the pacemaker device itself is evaluated to ensure that it is compatible with the MRI machine. Patients with pacemakers must undergo careful screening and evaluation before undergoing an MRI scan, and specialized medical staff must be present during the scan to monitor the patient and the pacemaker's function.

In Israel, several hospitals and clinics have invested in cardiac pacemaker-compatible MRI systems lately, providing patients with pacemaker access to this essential diagnostic tool. One example is the Assuta Medical Center in Tel Aviv, which has installed a state-of-the-art cardiac pacemaker-compatible MRI system, allowing patients with pacemakers to undergo MRI scans safely.

The availability of cardiac pacemaker-compatible MRI systems has significant benefits for patients, as it allows for accurate diagnosis and monitoring of various medical conditions, including heart disease, cancer, and neurological disorders. Previously, these patients may have been unable to undergo MRI scans, which could have led to delayed diagnoses and suboptimal treatment plans.

Technological Advancements in MRI Systems

Magnetic resonance imaging (MRI) has become an indispensable diagnostic tool for healthcare providers worldwide, providing high-quality images that aid in the diagnosis and monitoring of various medical conditions. In Israel, significant advancements in MRI technology have led to the development of cutting-edge MRI systems that offer improved diagnostic accuracy, increased speed, and enhanced patient comfort.

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One of the most significant technological advancements in MRI systems in Israel is the development of high-field MRI machines. High-field MRI systems, such as 3T and 7T MRI, provide higher magnetic field strengths, which result in clearer and more detailed images. The higher field strength enables faster imaging, allowing for more rapid diagnoses and treatment planning. The introduction of high-field MRI machines in Israel has improved the quality and speed of MRI scans, leading to improved patient outcomes.

Another significant advancement in MRI technology in Israel is the development of MRI-guided interventions. MRI-guided interventions enable physicians to use MRI images to guide minimally invasive procedures, such as biopsies, to precise locations within the body. This approach offers increased accuracy and safety compared to traditional methods, reducing the risk of complications and improving patient outcomes. MRI-guided interventions are particularly useful for the diagnosis and treatment of cancer, where precise targeting is essential.

The development of functional MRI (fMRI) is another significant advancement in MRI technology in Israel. fMRI enables physicians to visualize brain activity by detecting changes in blood flow. This technique is particularly useful for the diagnosis and treatment of neurological disorders, such as Parkinson's disease and epilepsy. The use of fMRI has also led to significant advancements in research related to brain function and cognitive processes, providing a better understanding of how the brain works.

In addition to the above-mentioned advancements, other technological innovations in MRI systems in Israel include the development of open MRI machines, which provide a more comfortable and less restrictive experience for patients, and the integration of MRI with other imaging modalities, such as positron emission tomography (PET) and computed tomography (CT), creating hybrid imaging systems.

Moreover, AI-driven applications and machine learning algorithms are being implemented in MRI technology in Israel to improve the accuracy of diagnoses and reduce scan times. These advancements are expected to revolutionize the field of MRI and enhance its diagnostic capabilities in Israel.

MRI Scans in Universal Health Coverage in Israel

Universal health coverage (UHC) is a critical goal for healthcare systems worldwide, ensuring that all individuals have access to quality healthcare services, including diagnostic imaging such as MRI scans. In Israel, UHC is a fundamental principle of the

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healthcare system, and access to MRI scans is available to all citizens and residents.

The Israeli healthcare system is based on a national health insurance (NHI) program, which is mandatory for all residents. The NHI program provides comprehensive coverage for essential healthcare services, including diagnostic imaging such as MRI scans. The Israeli government heavily subsidizes the cost of MRI scans, making them accessible and affordable for all individuals, regardless of their income.

In addition to the NHI program, supplementary insurance plans are available to provide coverage for additional healthcare services, including non-essential diagnostic imaging. However, the cost of MRI scans is still significantly lower in Israel compared to other countries, making them accessible to all individuals, regardless of their insurance coverage.

The Israeli healthcare system provides various initiatives and programs to ensure equitable access to healthcare services, including MRI scans. For example, in 2019, the Israeli Ministry of Health announced a plan to increase the number of MRI machines in hospitals and clinics across the country, with a focus on reducing waiting times for MRI scans. This plan has led to the addition of several new MRI machines, increasing access to MRI scans for patients in need.

Moreover, the Israeli healthcare system provides access to mobile MRI units, which can be transported to remote areas or areas with limited access to healthcare services. These units provide individuals living in these areas with access to essential diagnostic imaging services, including MRI scans, which may otherwise be unavailable.

Growing Use of Multimodality Imaging in Israel

Multimodality imaging, also known as hybrid imaging, is a rapidly evolving field in diagnostic imaging that combines multiple imaging modalities to provide more comprehensive diagnostic information. In Israel, multimodality imaging is increasingly being recognized as a valuable tool for improving diagnostic accuracy, patient outcomes, and treatment planning.

The most common multimodality imaging approach in Israel combines magnetic resonance imaging (MRI) and positron emission tomography (PET). PET-MRI scanners offer several advantages over traditional PET-CT scanners, including improved soft tissue contrast, reduced radiation exposure, and increased diagnostic accuracy.

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PET-MRI scanners are particularly useful in oncology, where they enable more accurate tumor detection, characterization, and staging. The combination of PET and MRI allows for better visualization of metabolic activity and anatomical structure, improving the accuracy of tumor detection and localization. Moreover, PET-MRI scans can provide information on tumor perfusion, hypoxia, and other biological processes, enabling physicians to develop personalized treatment plans based on the patient's specific tumor characteristics.

Multimodality imaging is useful in neuroimaging, where it allows the combination of functional and structural imaging modalities. The combination of functional MRI (fMRI) and diffusion tensor imaging (DTI) enables the mapping of brain function and connectivity, providing valuable information for the diagnosis and treatment of neurological disorders such as Alzheimer's disease, dementia, and multiple sclerosis. According to the 2020 data published by WHO, 2,996 or 8.52% of total deaths in Israel were reported to be due to Alzheimer’s and dementia.

Furthermore, multimodality imaging is useful in cardiovascular imaging, where it allows for the combination of MRI, CT, and ultrasound. The combination of these modalities can provide more comprehensive information on cardiac function, structure, and blood flow, enabling physicians to develop personalized treatment plans for patients with cardiovascular disease. According to the published reports, 10.2% of Israeli men and 7.1% of Israeli women are affected with cardiac diseases having a 7.5% and 4.1% prevalence of coronary artery disease respectively.

In addition to PET-MRI scanners, other hybrid imaging technologies are being developed in Israel, such as single-photon emission computed tomography (SPECT) and computed tomography (CT) hybrid scanners. These scanners combine the advantages of both imaging modalities, providing more comprehensive diagnostic information and improving patient outcomes.

Market Segmentation

Israel magnetic resonance imaging (MRI) market can be segmented by field strength, type, architecture, application, end user, source, product, and region. Based on field strength, the market can be segmented into high-field MRI systems (1.5t MRI systems, 3t MRI systems), low-to-mid-field MRI systems (

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