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Understanding the MRI

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Abstract

With the use of a powerful magnet, radio waves, and modern computer technology, magnetic resonance imaging (MRI) creates painless, entirely noninvasive scans of the body's many organs and structures. A significant portion of the body may be imaged with MRI in a short amount of time, and it can be used to examine practically any body area.

The use of MRI scans is highly helpful in the diagnosis of a

wide range of illnesses and anomalies, including malignant tumors and problems with the hip joint. Studying the spinal cord, brain, heart, and eyes using them is also highly helpful.

According on the size of the area to be scanned and the quantity of pictures acquired, an MRI scan normally takes 30 to 60 minutes.

Keywords: Understanding, MRI

Introduction

MRI is the result of a protracted engagement between physics and medicine. The Nobel Prize was given to Doctor Bloch from Stanford University and Doctor Purcell from Harvard University in 1952 for their research on what was then called "Nuclear Magnetic Resonance (NMR)". However, it was the introduction of computers in medical imaging that marked a paradigm shift 20 years later. By this point, the term "nuclear" has been replaced, and the procedure is now referred to as a "Magnetic Resonance Imaging" (MRI) ¹.

When Lauterbur and Damadian ², were working separately, they declared the potentiality of the science of magnetic resonance in imagining the human body in 1973, the medical field had witnessed a boom. Since then, magnetic resonance equipment has seen enormous technological and design advancements that include computer technology and advanced electronics to produce sectional pictures of the human body with exceptional delineation that are unmatched in the medical field. Utilizing the magnetic characteristics of atom nuclei, primarily hydrogen in human tissues, this novel diagnostic technique provides minute structural features of the human body. The human body is a chemical composition of multiple elements, including hydrogen, carbon, nitrogen, sodium, phosphorus, potassium, etc. in diverse chemical combinations. This composition serves as a testament to their attempts ³.

It has been noted that certain of these elements' atoms, whose nuclei have an odd number of protons, exhibit magnetic characteristics. Magnetic resonance signals and pictures have been created using these elements' protons' magnetic characteristics. The protons of the hydrogen atom, found in water and several other organic substances including lipids, fluids, cholesterol, etc., are the most prevalent of these in the human body ⁴.

Basic Principle of MRI Electromagnetic Radiation ^{4,5,6}

The hydrogen nuclei in the body align with the external magnetic field applied when a patient is positioned in the intense magnetic field of the MRI scanner. This alignment occurs when the body is subjected to brief radiofrequency (RF) pulses (Fig 1).

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