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**Abstract:** Since the late 1970s, hospitals worldwide have been using Magnetic Resonance Imaging (MRI) machines to identify various conditions that may be present within a patient's body, such as torn ligaments or more serious cases involving brain tumors. In our research, we hope to provide an understanding of how MRIs operate while also demonstrating their importance and use within the medical field. In addition, we will examine cases in which MRIs have caused serious side effects to patients. We hope to provide an explanation as to why Magnetic Resonance Imaging was and continues to be a monumental asset to the advancement of radiological technology.

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