



# Clinical MR Imaging and Physics: A Tutorial

*Haris S. Chrysikopoulos*

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## **Clinical MR Imaging and Physics: A Tutorial** Haris S. Chrysikopoulos

Keywords Spin > Electromagnetic radiation > Resonance > Nucleus > Hydrogen > Proton > Certain atomic nuclei possess inherent magnetic Let us summarize the MRI procedure. The patient properties called spin, and can interact with electro- is placed in a magnetic field and becomes temporarily 1 magnetic (EM) radiation through a process called magnetized. Resonance is achieved through the - resonance. When such nuclei absorb EM energy they plication of specific pulses of EM radiation, which is proceed to an excited, unstable configuration. Upon absorbed by the patient. Subsequently, the excess - return to equilibrium, the excess energy is released, ergy is liberated and measured. The captured signal producing the MR signal. These processes are not is processed by a computer and converted to a gray random, but obey predefined rules. scale (MR) image. The simplest nucleus is that of hydrogen (H), con- Why do we need to place the patient in a m- sisting of only one particle, a proton. Because of its net? Because the earth's magnetic field is too weak to abundance in humans and its strong MR signal, H be clinically useful; it varies from 0. 3-0. 7 Gauss (G). is the most useful nucleus for clinical MRI. Tus, foC r urrent clinical MR systems operate at low, mid or our purposes, MRI refers to MRI of hydrogen, and for h igh field strength ranging from 0. 1 to 3.

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