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The challenges of antenna modification in medical practice: The MRI machine

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The challenges of modifying the antenna of imaging systems, e.g., MRI, are enormous. The electromagnetic principles for the non-ionizing radiation technique to view internal structures in the human body depend on many factors such as the ratings of the magnetic field, computer, digitizer, RF source, and electrical field. An incorporation of the Bloch NMR flow equation alongside the electromagnetic principles is quite complex. However, the modality was successfully developed to predict the radiofrequency appropriate for the successful imaging session. It was observed that the patient is currently under severe danger of excess exposure to electromagnetic fields.

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