ICISE School for Medical Physics 2022, ICISE, Quy Nhon, Vietnam



Contribution ID: 59

Type: not specified

MAGNETIZATION PROPERTIES OF TISSUES

Friday 9 September 2022 11:45 (15 minutes)

Due to the fact that Magnetic Resonance Imaging has become prevalent and been likely to take lead in the field of Diagnostic Imaging these days, I am extremely aware of the importance of understanding the rationale behind the MRI techniques. This study topic will present, to some extent, what is occurring inside our body during the MRI examination; in other words, magnetization properties of tissues.

I, myself, as well as many of our student generations have faced some misleading problems in terms of MR images when they first got used to this procedure. Unlike X-ray or Computed Tomography, which our learners would find it less difficult to obtain the physics of these, most of us would struggle to comprehend how the body's parts or organs contrast were revealed on the MR images. Therefore, I opt for this topic as my interest when it comes to introducing MRI to students or talks with my colleagues. My presentation, including some formulas and images as examples, will clarify the principles of T1, and T2 relaxations as well as differences between them.

If only my presentation would provide those who will take part in the 'student presentations' session of the workshop with some useful and informative details regarding how MR images were created.

Presenter: ., Vũ Lê Huy

Session Classification: Student presentations - Session 5