

To grasp MRI sequences, it's essential to define some key terms in radiology:

- o Repetition Time (TR) refers to the time interval between successive pulse sequences applied to the same tissue slice.

Overall, T1 and T2-weighted images provide complementary information for diagnosing various conditions based on their distinct tissue signal characteristics. These two parameters, TR and TE, determine the characteristics of different MRI sequences:

- o T1-weighted images are generated using short TR and short TE, measuring how quickly the tissue becomes magnetized.

In contrast to T1-weighted images, T2-weighted images show:

- o High signals for tissues with more water content, allowing visualization of edema, tumors, infarctions, infections, and inflammation.