

## **T1 Mapping**

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The T1 relaxation time of any tissue is key in depicting soft tissue contrast and has been showed to be instrumental in demonstrating focal pathology especially when used in conjunction with contrast administration. Given the complex and often times diffuse nature of myocardial disease of the heart, conventional T1 weighted imaging of the heart is not sufficient to display these pathologies.

T1 mapping refers to various magnetic resonance approaches utilising T1 imaging either with or without contrast (native T1). Advancement in cardiac MR imaging has made it possible to quantify T1 of the heart and subsequently depict small variations of these into T1 maps to detect cardiac myocardium pathology. This talk will focus on applications and techniques of T1 mapping of the heart.