

The Optimization of Adiabatic Pulses with Constant Amplitude Spin-lock for MR $T_{1\rho}$ Imaging

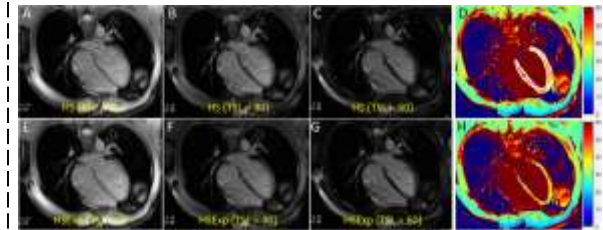
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- HS and HSExp adiabatic spin-lock pulses were optimized using a duration of 4ms.
- Images with higher SNR were obtained compared with those using pulses of 8ms.
- Almost equivalent mapping quality was achieved compared with that using pulses of 8ms.



The $T_{1\rho}$ -weighted images (TSL = 0, 30, 60ms) and $T_{1\rho}$ maps using two types of adiabatic pulses in cardiac imaging