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BURZTE: Silent Quantitative MRI using ZTE combined with BURST

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ZTE image encoding was combined with Burst imaging by reversing segments of 3D radial spokes in both time and amplitude. This recalls gradient echoes for each spokes/excitation, yielding images with T2*weighting. By adding a pair of refocusing pulses with the appropriate weight period, it is also possible to obtain spin-echoes, leading to T2-weighted images. Data is reconstructed using standard 3D gridding and Fourier transformation, and fitting quantitative T2*, T2 and magnetic susceptibility (QSM) maps. In vivo feasibility was demonstrated by imaging the brain of multiple healthy volunteers.

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